



PROJECT OPERATIONS BRANCH, CODE 513
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND, U.S.A. 20771

SATELLITE SITUATION REPORT

VOLUME 31, NUMBER 4 DECEMBER 31, 1991

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	SPACE OBJECTS BOX SCORE			DECAYED OBJECTS		
	OBJECTS IN ORBIT	PAYLOAD DEBRIS	TOTAL	PAYLOAD DEBRIS	TOTAL	TOTAL
ARGENTINA	1	0	1	0	0	0
AUSTRALIA	4	0	4	1	0	1
BRAZIL	3	0	3	0	0	0
CANADA	16	0	16	0	0	0
CZECH	1	0	1	1	0	1
ESA	23	139	161	3	435	438
ESRO	0	0	0	7	3	10
FRANCE	17	15	32	7	59	66
FRANCE/FRG	2	0	2	0	0	0
FRG	11	1	12	4	5	9
INDIA	8	1	9	5	7	12
INDONESIA	5	0	5	1	1	2
INTERNATIONAL TELECOM- MUNICATIONS SATELLITE ORGANIZATION (ITSO)	42	0	42	1	0	1
ISRAEL	0	0	0	2	2	4
ITALY	2	0	2	5	0	5
JAPAN	44	50	94	9	65	74
LUXEMBOURG	2	0	2	0	0	0
MEXICO	2	0	2	0	0	0
NATO	7	2	9	0	0	0
NETHERLANDS	0	0	0	1	3	4
PAKISTAN	0	0	0	1	0	1
PRC	10	80	90	21	57	78
SAUDI ARABIA	2	0	2	0	0	0
SPAIN	1	0	1	0	0	0
SWEDEN	2	0	2	0	0	0
UK	17	2	19	8	3	11
US	597	2622	3219	610	2764	3374
USSR	1215	2076	3291	1528	9212	10740
COLUMN TOTAL	2034	4987	7021	2215	12616	14831
SUM TOTAL						21652

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIGD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1958 LAUNCHES										
BETA 1	VANGUARD 1	16	US	17 MAR	137.8	34.3	4257	658		
BETA 2		5	US	17 MAR	133.3	34.2	3872	656		
BETA 3		1576	US	17 MAR	127.3	34.3	3348	656		
1959 LAUNCHES										
ALPHA 1	VANGUARD 2	11	US	17 FEB	123.0	32.9	3067	559		
ALPHA 2	VANGUARD 3	12	US	17 FEB	127.3	32.9	3449	559		
ETA 1		20	US	18 SEP	126.6	33.3	3432	513		
IOTA 1		22	US	13 OCT	98.8	50.3	874	526		
MU 1	LUNA 1	112	USSR	2 JAN	HELIOCENTRIC ORBIT					
NU 1	PIONEER 4	113	US	3 MAR	HELIOCENTRIC ORBIT					
1960 LAUNCHES										
ALPHA 1	PIONEER 5	27	US	11 MAR	HELIOCENTRIC ORBIT					
BETA 2	TIROS 1	29	US	1 APR	98.4	48.4	700	659		
BETA 4		115	US	1 APR	98.5	48.2	726	649		
ETA 1		45	US	22 JUN	100.9	66.7	1000	597		
ETA 2	TRANSIT 2A GRER	46	US	22 JUN	100.3	66.7	953	587		
ETA 3		47	US	22 JUN	100.4	66.7	963	593		
ETA 4		840	US	22 JUN	98.2	66.7	792	555		
ETA 5	IOTA 2	841	US	22 JUN	98.1	66.7	778	553		
IOTA 2		50	US	12 AUG	118.1	47.2	1685	1501		
IOTA 3		51	US	12 AUG	118.2	47.2	1686	1517		
IOTA 4	COURIER 1B	52	US	12 AUG	CURRENT ELEMENTS NOT MAINTAINED					
IOTA 5		53	US	12 AUG	119.4	47.3	1687	1529		
NU 1		58	US	4 OCT	107.1	28.3	1214	967		
NU 2	EXPLORER 8	59	US	4 OCT	106.6	28.2	1208	926		
XI 1		60	US	3 NOV	103.1	49.9	1415	397		
PI 1		63	US	23 NOV	96.5	48.5	622	555		
PI 5	TIROS 2	5922	US	23 NOV	105.2	47.0	1036	974		
1961 LAUNCHES										
APSI 5	VENERA 1	19436	US	13 SEP	93.3	58.3	437	430		
GAMMA 1		80	USSR	12 FEB	HELIOCENTRIC ORBIT					
DELTA 2		82	US	16 FEB	117.9	38.9	2532	636		
DELTA 3	EXPLORER 11	85	US	16 FEB	109.1	38.8	1783	587		
DELTA 6		3927	US	16 FEB	110.2	39.9	1873	594		
DELTA 7		4026	US	16 FEB	110.6	38.9	1919	584		
NU 1	OMICRON 1	107	US	27 APR	104.7	28.8	1480	481		
NU 2		3739	US	27 APR	90.6	28.8	334	273		
OMICRON 1		116	US	29 JUN	103.6	66.8	978	875		
OMICRON 2	TRANSIT 4A	117	US	29 JUN	103.7	66.8	984	878		
OMICRON 3 - 297	INJUN-SR-3		US	29 JUN	SEE NOTE 1*					1*
OMICRON 23		138	US	29 JUN	103.3	67.2	944	889		

INTER-NATIONAL DESIGNATION		NAME		OBJECTS IN ORBIT					PERIGEE KM.		TRANSMITTING FREQ.(MHZ)		NOTES
CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI-NATION	APOGEE KM.								
1961 LAUNCHES (CONT.)													
OMICRON 39													
RHO 1	TIROS 3	29 JUN	102.9	66.7	962					829			
RHO 2		12 JUL	100.0	47.9	792					724			
RHO 3		12 JUL	98.3	47.9	698					655			
RHO 4		12 JUL	92.4	47.9	408					374			
SIGMA 1	MIDAS 3	12 JUL	101.5	47.9	903					759			
SIGMA 3		12 JUL	161.4	91.2	3539					3344			
SIGMA 4		12 JUL	161.1	91.2	3537					3318			
A DELTA 1	MIDAS 4	12 JUL	161.8	91.2	3565					3351			
A DELTA 3		21 OCT	165.9	95.9	3762					3483			
A DELTA 4		21 OCT	165.5	95.9	3842					3370			
A DELTA 5		21 OCT	166.3	95.9	3871					3406			
A DELTA 6		21 OCT	165.7	95.9	3733					3493			
A ETA 1	TRANSIT 48	21 OCT	165.2	95.8	4794					2394			
A ETA 2	TRAAC	15 NOV	105.7	32.4	1104					953			
A ETA 3		15 NOV	105.8	32.4	1108					955			
A ETA 4		15 NOV	105.6	32.4	1097					949			
		15 NOV	105.8	32.4	1107					955			
1962 LAUNCHES													
ALPHA 1	RANGER 3	26 JAN	HELIOCENTRIC ORBIT										
ALPHA 2		26 JAN	HELIOCENTRIC ORBIT										
BETA 1	TIROS 4	8 FEB	99.9	48.3	814					594			
BETA 2		8 FEB	100.6	48.1	892					684			
BETA 3		8 FEB	98.0	48.4	680					641			
BETA 4		8 FEB	97.7	48.3	678					616			
KAPPA 1		9 APR	152.9	86.7	3407					2781			
KAPPA 3		9 APR	152.5	86.7	3369					2788			
KAPPA 4		9 APR	153.3	86.7	3448					2768			
MU 2		23 APR	HELIOCENTRIC ORBIT										
A ALPHA 1	TIROS 5	19 JUN	99.5	58.1	892					575			
A ALPHA 2		19 JUN	90.7	58.0	313					299			
A ALPHA 3		19 JUN	100.2	58.3	951					580			
A ALPHA 4		19 JUN	90.1	58.0	291					269			
A EPSILON 1	TELSTAR 1	10 JUL	157.8	44.8	5642					946			
A EPSILON 2		10 JUL	157.6	44.8	5629					943			
A OMICRON 1		23 AUG	98.2	98.4	759					582			
A OMICRON 3		23 AUG	94.5	98.4	534					452			
A OMICRON 4		23 AUG	95.7	98.6	593					507			
A RHO 1	MARINER 2	27 AUG	HELIOCENTRIC ORBIT										
A RHO 2		27 AUG	HELIOCENTRIC ORBIT										
A PSI 1	TIROS 6	18 SEP	97.7	53.3	652					642			
A PSI 3		18 SEP	97.5	58.4	671					610			
B ALPHA 1	ALOUETTE 1	29 SEP	105.2	80.5	1021					988			
B ALPHA 2		29 SEP	105.2	80.5	1018					992			
B ALPHA 3		29 SEP	105.2	80.5	1013					990			
B ALPHA 4		29 SEP	105.3	80.4	1030					984			
B ETA 1	RANGER 5	18 OCT	HELIOCENTRIC ORBIT										
B ETA 2		18 OCT	HELIOCENTRIC ORBIT										
B MU 1	ANNA 18	31 OCT	107.9	50.2	1181					1075			

INTER- NATIONAL DESIGNATION		NAME		OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
CATALOG NUMBER	SOURCE	LAUNCH											
1962 LAUNCHES (CONT.)													
8 MU 2	US	31 OCT		107.6	50.1	1164	1065						
8 MU 3	USSR	1 NOV	HELIOCENTRIC ORBIT										
8 UPSILON 1 RELAY 1	US	13 DEC		185.1	47.5	7434	1325						
8 UPSILON 2	US	13 DEC		184.8	47.5	7416	1324						
8 CHI 1	US	16 DEC		104.1	52.0	1159	746						
1963 LAUNCHES													
1963 004A	SYNCOM 1	14 FEB		CURRENT ELEMENTS NOT MAINTAINED									2*
1963 008B	LUNA 4	2 APR		BARYCENTRIC ORBIT									
1963 013A	TELSTAR 2	7 MAY		225.3	42.8	10815	959						
1963 013B		7 MAY		225.0	42.8	10792	960						
1963 014A		9 MAY		166.4	87.3	3680	3603						
1963 014B	ERS 5	9 MAY		165.1	87.2	4911	2269						
1963 014C	ERS 6	9 MAY		166.4	87.3	3729	3554						
1963 014D - 014FH		9 MAY	SEE NOTE										
1963 022B		16 JUN		96.4	89.9	595	578						
1963 024A	TIROS 7	19 JUN		93.7	58.2	461	454						
1963 025B		27 JUN		115.5	82.1	2627	325						
1963 030A	ERS 10	18 JUL		167.8	88.4	3723	3674						
1963 030B	ERS 9	18 JUL		167.8	88.4	3726	3671						
1963 030C		18 JUL		167.4	88.4	3744	3624						
1963 030E		18 JUL		168.2	88.4	3786	3645						
1963 030F		18 JUL		167.8	88.5	3729	3668						
1963 030G		18 JUL		167.8	88.5	3758	3641						
1963 030H		18 JUL		162.1	88.7	5768	1168						
1963 031A	SYNCOM 2	26 JUL		CURRENT ELEMENTS NOT MAINTAINED									
1963 038A		28 SEP		107.0	89.9	1104	1067						
1963 038B		28 SEP		107.2	90.0	1126	1062						
1963 038C	SN 39	28 SEP		107.1	90.0	1124	1061						
1963 038D		28 SEP		106.2	89.9	1077	1025						
1963 038E		28 SEP		106.6	89.9	1085	1050						
1963 038F		28 SEP		106.3	89.9	1083	1026						
1963 038G		28 SEP		107.1	90.0	1125	1062						
1963 038K		28 SEP		104.6	89.9	1077	876						
1963 038K		28 SEP		106.2	89.9	1072	1028						
1963 039A		17 OCT		CURRENT ELEMENTS NOT MAINTAINED									
1963 039C		17 OCT		CURRENT ELEMENTS NOT MAINTAINED									
1963 047A	CENTAUR 2	27 NOV		104.8	30.4	1498	470						
1963 047B - 047U		27 NOV	SEE NOTE										3*
1963 049A		5 DEC		106.7	90.1	1082	1061						
1963 049B		5 DEC		106.9	90.1	1112	1056						
1963 049C		5 DEC		106.9	90.1	1110	1056						
1963 049D		5 DEC		106.5	90.1	1087	1043						
1963 049E		5 DEC		105.8	90.0	1053	1014						
1963 049F		5 DEC		106.6	90.1	1095	1043						
1963 049G		5 DEC		106.9	90.1	1110	1055						
1963 049H		5 DEC		106.3	90.1	1065	1042						
1963 053B		19 DEC		115.2	78.6	2331	598						
1963 053C		19 DEC		110.5	78.6	1862	640						

INTER- NATIONAL DESIGNATION		NAME		OBJECTS IN ORBIT				NOTES		
CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES		
1963 LAUNCHES (CONT.)										
1963 053E	US	19 DEC	109.1	78.6	1772	598				
1963 053G	US	19 DEC	106.3	78.5	1518	593				
1963 053H	US	19 DEC	110.2	78.6	1849	526				
1963 053J	US	19 DEC	108.3	78.6	1679	615				
1963 053K	US	19 DEC	111.0	78.7	1896	647				
1963 054A	US	21 DEC	98.6	58.5	707	671				
1963 054C	US	21 DEC	100.1	58.5	853	677				
1963 054E	US	21 DEC	98.2	58.5	698	644				
1964 LAUNCHES										
1964 001A	US	11 JAN	103.3	69.9	922	902				
1964 001B	US	11 JAN	103.2	69.9	919	898				
1964 001C	US	11 JAN	103.3	69.9	923	903				
1964 001D	US	11 JAN	103.2	69.9	922	901				
1964 001E	US	11 JAN	103.2	69.9	921	901				
1964 002A	US	19 JAN	100.8	99.1	820	768				
1964 002B	US	19 JAN	100.9	99.1	811	790				
1964 002C	US	19 JAN	101.0	99.1	816	792				
1964 003A	US	21 JAN	194.7	46.4	7532	1969				
1964 003B	US	21 JAN	194.8	46.4	7537	1969				
1964 004B	US	25 JAN	108.8	81.5	1299	1040				
1964 004C	US	25 JAN	108.6	81.5	1293	1033				
1964 004D	US	25 JAN	108.6	81.5	1297	1027				
1964 006A	USSR	30 JAN	163.1	60.9	6612	406				
1964 006B	USSR	30 JAN	1356.4	62.0	60065	8357				
1964 006C	USSR	30 JAN	SEE NOTE 4*						4*	
1964 0160	USSR	2 APR	HELIOCENTRIC ORBIT							
1964 026A	US	4 JUN	102.2	90.5	904	825				
1964 026B	US	4 JUN	102.2	89.9	892	831				
1964 026C	US	4 JUN	99.2	90.8	765	677				
1964 026D	US	4 JUN	102.5	90.5	917	839				
1964 026E	US	4 JUN	102.6	90.5	926	839				
1964 031A	US	18 JUN	101.2	99.8	821	812				
1964 031B	US	18 JUN	101.3	99.8	823	815				
1964 031C	US	18 JUN	101.1	99.9	818	800				
1964 038A	USSR	10 JUL	161.5	60.9	6484	404				
1964 038C	USSR	10 JUL	139.3	60.8	4646	400				
1964 040A	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED							
1964 040B	US	17 JUL	CURRENT ELEMENTS NOT MAINTAINED							
1964 041B	US	28 JUL	BARYCENTRIC ORBIT							
1964 047A	US	19 AUG	CURRENT ELEMENTS NOT MAINTAINED							
1964 047B	US	19 AUG	CURRENT ELEMENTS NOT MAINTAINED							
1964 049D	USSR	22 AUG	714.8	70.4	38488	1717				
1964 049E	USSR	22 AUG	718.9	70.3	38712	1699				
1964 049F	USSR	22 AUG	714.4	71.1	37879	2307				
1964 051A	US	25 AUG	103.6	79.9	1001	956				
1964 051B	US	25 AUG	103.2	79.9	979	844				
1964 053A	USSR	28 AUG	98.7	65.1	798	597				
1964 053B	USSR	28 AUG	99.0	55.1	758	603				

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1964 LAUNCHES (CONT.)											
1964 053C		21126	USSR	28 AUG	98.9	65.1	754	661			
1964 054A	OGO 1	879	US	5 SEP	CURRENT ELEMENTS NOT MAINTAINED						
1964 063A	NNSS 30010	893	US	6 OCT	105.2	90.1	1067	1030			
1964 063B		897	US	6 OCT	106.4	90.1	1072	1047			
1964 063C		900	US	6 OCT	105.5	90.1	1036	1002			
1964 063D		901	US	6 OCT	106.4	90.1	1068	1048			
1964 063E		902	US	6 OCT	106.4	90.1	1075	1048			
1964 063F		903	US	6 OCT	105.4	90.0	1029	998			
1964 064A	EXPLORER 22	899	US	10 OCT	104.4	79.7	1054	873			
1964 064B		907	US	10 OCT	104.4	79.7	1058	876			
1964 064C		976	US	10 OCT	103.1	79.3	998	810			
1964 064D		977	US	10 OCT	104.9	80.0	1087	888			
1964 064D					HELIOCENTRIC ORBIT						
1964 073A	MARINER 3	923	US	5 NOV	114.7	81.3	2359	523			
1964 076B	EXPLORER 25	932	US	21 NOV	114.0	81.3	2295	524			
1964 076C		933	US	21 NOV	HELIOCENTRIC ORBIT						
1964 077A	MARINER 4	938	US	28 NOV	HELIOCENTRIC ORBIT						
1964 077B		942	US	30 NOV	HELIOCENTRIC ORBIT						
1964 078C	ZOND 2	945	USSR	30 NOV	HELIOCENTRIC ORBIT						
1964 083A	NNSS 30020	953	US	13 DEC	106.0	89.8	1062	1017			
1964 083B		956	US	13 DEC	105.7	89.8	1054	1000			
1964 083C		959	US	13 DEC	105.9	89.8	1065	1008			
1964 083D		965	US	13 DEC	106.1	89.8	1077	1017			
1964 083F		967	US	13 DEC	105.7	89.8	1055	1000			
1964 083G		1099	US	13 DEC	105.9	89.8	1064	1009			
1964 083J		1608	US	13 DEC	105.1	89.8	1027	971			
1964 085A	EXPLORER 26	963	US	21 DEC	CURRENT ELEMENTS NOT MAINTAINED						
1965 LAUNCHES											
1965 004A	TIROS 9	978	US	22 JAN	118.9	96.4	2564	702			
1965 004B		979	US	22 JAN	118.7	96.4	2547	702			
1965 004C		1312	US	22 JAN	117.5	96.4	2468	669			
1965 004D		1313	US	22 JAN	120.1	96.4	2637	728			
1965 008A		1001	US	11 FEB	145.4	32.1	2798	2765			
1965 008B		1000	US	11 FEB	145.7	32.1	2804	2782			
1965 009C		1002	US	11 FEB	145.8	32.1	2810	2782			
1965 010B		1087	US	17 FEB	BARYCENTRIC ORBIT						
1965 016A	GRES	1271	US	9 MAR	103.2	70.1	924	897			
1965 016B	GRAVITY GRADIENT 2	1244	US	9 MAR	103.3	70.1	926	899			
1965 016C	GRAVITY GRADIENT 3	1292	US	9 MAR	103.0	70.1	915	889			
1965 016D	SOLRAD 78	1291	US	9 MAR	103.3	70.1	923	901			
1965 016E	SECOR (EGRS) 3	1208	US	9 MAR	103.3	70.1	925	899			
1965 016F	OSCAR 3	1293	US	9 MAR	102.8	70.1	904	877			
1965 016H	SURCAL	1272	US	9 MAR	103.3	70.1	930	901			
1965 016J		1245	US	9 MAR	103.2	70.1	923	895			
1965 016K		12099	US	9 MAR	103.0	70.1	912	886			
1965 016K		1335	USSR	15 MAR	106.4	56.1	1530	592			
1965 020E		1347	USSR	15 MAR	102.3	56.0	1202	533			
1965 020S		1370	USSR	15 MAR	102.7	56.1	1240	528			
1965 020AC		1392	USSR	15 MAR	104.7	55.9	1441	520			
1965 020AH											

OBJECTS IN ORBIT										NOTES
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	
1965 LAUNCHES (CONT.)										
1965 0208B		1477	USSR	15 MAR	111.9	55.5	1799	830		
1965 0208C		1478	USSR	15 MAR	109.8	56.1	1805	626		
1965 0208D		1479	USSR	15 MAR	114.9	56.0	2088	809		
1965 0208E		1480	USSR	15 MAR	114.6	56.1	2128	746		
1965 0208V		1495	USSR	15 MAR	103.5	55.6	1240	608		
1965 020CV		1549	USSR	15 MAR	114.5	56.2	2097	763		
1965 020ED		1634	USSR	15 MAR	115.8	56.2	2178	802		
1965 020EH		2334	USSR	15 MAR	110.7	55.7	1736	782		
1965 020EM		2934	USSR	15 MAR	115.4	55.6	1762	1183		
1965 020EN		3038	USSR	15 MAR	108.0	56.3	1680	590		
1965 020ES		3708	USSR	15 MAR	103.1	56.3	1208	605		
1965 020ET		3743	USSR	15 MAR	118.1	56.7	1809	1381		
1965 020EU		3745	USSR	15 MAR	115.3	56.0	1592	1344		
1965 020EV		3749	USSR	15 MAR	107.4	56.1	1603	613		
1965 020EY		3931	USSR	15 MAR	116.6	56.1	1698	1358		
1965 020FD		3965	USSR	15 MAR	117.8	56.3	1800	1360		
1965 020FO		6252	USSR	15 MAR	117.1	56.0	1699	1403		
1965 020FF		13517	USSR	15 MAR	109.4	55.6	1673	720		
1965 023B		1298	US	21 MAR	HELIOCENTRIC ORBIT					
1965 025A	EARLY 8IRD	1317	ITSO	6 APR	1435.4	14.1	35805	35740		
1965 027A		1314	US	3 APR	111.4	90.3	1316	1268		
1965 027B	SECOR (EGRS) 4	1315	US	3 APR	111.4	90.3	1312	1265		
1965 027B - 0278D			US	3 APR	SEE NOTE 5*					
1965 023B		1318	US	6 APR	CURRENT ELEMENTS NOT MAINTAINED					
1965 032A	EXPLORER 27	1328	US	29 APR	107.7	41.2	1315	927		
1965 032B		1358	US	29 APR	107.7	41.2	1314	930		
1965 032D		2011	US	29 APR	108.3	41.2	1244	1054		
1965 034A		1359	US	6 MAY	157.1	32.1	3742	2787		
1965 034B		1360	US	6 MAY	309.9	32.2	14807	2773		
1965 034C		1361	US	6 MAY	145.6	32.1	2803	2778		
1965 034D		2529	US	6 MAY	309.9	32.1	14800	2779		
1965 038A		1377	US	20 MAY	97.3	98.2	751	509		
1965 038B		1378	US	20 MAY	95.0	97.9	579	453		
1965 044A	LUNA 6	1393	USSR	3 JUN	HELIOCENTRIC ORBIT					
1965 048A	NNSS 30040	1420	US	24 JUN	106.6	90.1	1127	1013		
1965 048B		1428	US	24 JUN	106.5	90.1	1104	1019		
1965 048C		1425	US	24 JUN	106.7	90.1	1131	1020		
1965 048D		1435	US	24 JUN	105.8	90.1	1084	982		
1965 048E		2701	US	24 JUN	106.0	90.1	1083	999		
1965 048F		3592	US	24 JUN	106.1	90.1	1086	1001		
1965 051A	TIROS 10	1430	US	2 JUL	100.2	98.8	806	723		
1965 051B		1433	US	2 JUL	99.6	98.7	775	702		
1965 051C		1440	US	2 JUL	94.9	98.5	553	478		
1965 051D		1529	US	2 JUL	101.5	99.1	855	800		
1965 055A	ZOND 3	1454	USSR	18 JUL	HELIOCENTRIC ORBIT					
1965 058A		1458	US	20 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1965 058B		1459	US	20 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1965 063A	SECOR (EGRS) 5	1506	US	10 AUG	122.2	69.2	2419	1134		
1965 063B		1502	US	10 AUG	122.2	69.2	2418	1136		
1965 064A	CENTAUR 6	1503	US	11 AUG	BARYCENTRIC ORBIT					

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1965 LAUNCHES (CONT.)										
1965 065A	NNSS 30050	1504	US	13 AUG	107.7	90.0	1171	1069		
1965 065B		1508	US	13 AUG	107.5	89.9	1144	1080		
1965 065C		1510	US	13 AUG	105.7	90.0	1064	987		
1965 065D		1511	US	13 AUG	107.9	90.0	1182	1081		
1965 065E		1512	US	13 AUG	109.0	90.0	1184	1081		
1965 065F		1514	US	13 AUG	107.9	90.0	1181	1078		
1965 065G		1515	US	13 AUG	107.2	90.0	1148	1049		
1965 065H		1520	US	13 AUG	107.9	90.0	1179	1076		
1965 065J		1521	US	13 AUG	108.0	90.0	1184	1082		
1965 065K		1577	US	13 AUG	107.9	90.0	1178	1077		
1965 065L		1522	US	13 AUG	108.0	90.0	1185	1080		
1965 065P		3810	US	13 AUG	107.2	90.0	1147	1049		
1965 065Q		5265	US	13 AUG	107.8	89.9	1154	1092		
1965 070A	COSMOS 80	1570	USSR	3 SEP	115.0	56.1	1540	1365		
1965 070B	COSMOS 81	1571	USSR	3 SEP	115.3	56.1	1545	1393		
1965 070C	COSMOS 82	1572	USSR	3 SEP	115.7	56.1	1551	1419		
1965 070D	COSMOS 83	1573	USSR	3 SEP	116.0	56.1	1559	1446		
1965 070E	COSMOS 84	1574	USSR	3 SEP	116.4	56.1	1570	1468		
1965 070F		1575	USSR	3 SEP	114.6	56.1	1514	1357		
1965 070G		3045	USSR	3 SEP	115.9	55.5	1728	1260		
1965 072A		1580	US	10 SEP	101.2	98.6	997	635		
1965 072D		1583	US	10 SEP	100.2	98.6	918	618		
1965 072E		1931	US	10 SEP	101.7	98.9	1056	625		
1965 072F		1932	US	10 SEP	98.1	98.2	751	583		
1965 073A	COSMOS 86	1584	USSR	18 SEP	115.0	56.1	1627	1286		
1965 073B	COSMOS 87	1585	USSR	18 SEP	115.4	56.1	1637	1314		
1965 073C	COSMOS 88	1586	USSR	18 SEP	115.8	56.1	1645	1340		
1965 073D	COSMOS 89	1587	USSR	18 SEP	116.2	56.1	1657	1365		
1965 073E	COSMOS 90	1588	USSR	18 SEP	116.6	56.1	1671	1388		
1965 073F		1589	USSR	18 SEP	116.8	56.1	1681	1391		
1965 073G		1590	USSR	18 SEP	115.9	56.0	1632	1360		
1965 073H		1591	USSR	18 SEP	116.2	56.1	1651	1372		
1965 073J		1617	USSR	18 SEP	117.0	56.1	1734	1360		
1965 073K		1618	USSR	18 SEP	117.3	56.2	1745	1377		
1965 073L		2647	USSR	18 SEP	116.0	56.1	1541	1356		
1965 078A		1613	US	5 OCT	118.1	144.2	2787	407		
1965 078B		1616	US	5 OCT	116.9	144.3	2663	409		
1965 082B	- 082UP		US	15 OCT	SEE NOTE					7*
1965 089A	EXPLORER 29	1726	US	6 NOV	120.3	59.4	2268	1119		
1965 089B		1729	US	6 NOV	120.3	59.4	2265	1119		
1965 089C		2700	US	6 NOV	119.1	59.6	2221	1062		
1965 089D		2888	US	6 NOV	121.3	59.2	2325	1151		
1965 091A	VENERA 2	1730	USSR	12 NOV	HELIOCENTRIC ORBIT					
1965 092D		1736	USSR	16 NOV	HELIOCENTRIC ORBIT					
1965 093A	EXPLORER 30	1738	US	19 NOV	100.3	59.7	877	564		
1965 093B		1739	US	19 NOV	99.9	59.7	827	675		
1965 093C		2013	US	19 NOV	98.0	59.7	709	615		
1965 093D		2088	US	19 NOV	100.1	59.7	635	587		
1965 096A	A-1	1778	FRANCE	26 NOV	107.6	34.3	1703	528		
1965 096B		1805	FRANCE	26 NOV	106.3	34.2	1585	523		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1965 LAUNCHES (CONT.)															
1965 0960					1996	FRANCE	26 NOV	101.7	34.2		1176	503			
1965 098A	ALOUETTE 2				1804	CANADA	29 NOV	118.4	79.8		2716	502			
1965 098B	EXPLORER 31				1806	US	29 NOV	120.1	79.8		2864	502			
1965 098C					1807	US	29 NOV	118.9	79.8		2764	501			
1965 098D					1808	US	29 NOV	106.4	79.8		1640	476			
1965 098E					1944	US	29 NOV	105.2	79.8		1538	471			
1965 098F					1948	US	29 NOV	113.6	79.9		2292	495			
1965 098G					1951	US	29 NOV	113.6	79.7		2293	492			
1965 098H					2092	US	29 NOV	118.7	79.9		2736	505			
1965 098J					2153	US	29 NOV	118.3	79.8		2708	503			
1965 098K					20833	US	29 NOV	99.8	79.7		1065	434			
FR-1					1814	FRANCE	6 DEC	98.9	75.9		710	700			
1965 101A					1815	US	6 DEC	98.6	75.8		699	688			
1965 101B					1841	US	16 DEC	HELIOCENTRIC ORBIT							
1965 105A	PIONEER 6				1843	USSR	17 DEC	95.3	65.0		571	496			
1965 106A	COSMOS 100				1844	USSR	17 DEC	94.6	65.0		511	490			
1965 106B					1864	US	22 DEC	104.6	89.1		1062	892			
1965 109A	NNSS 30060				1865	US	22 DEC	104.7	89.1		1066	896			
1965 109B					2086	US	22 DEC	100.5	89.1		804	761			
1965 109C					2226	US	22 DEC	106.8	89.1		1269	888			
1965 109D					2353	US	22 DEC	104.9	89.4		1107	874			
1965 109E					1937	USSR	28 DEC	94.4	55.9		501	478			
1965 112Q															
1966 LAUNCHES															
1966 005A					1952	US	28 JAN	105.5	89.9		1184	850			
1966 005B	NNSS 30070				1953	US	28 JAN	105.6	89.9		1193	852			
1966 005C					2140	US	28 JAN	107.2	90.1		1343	849			
1966 005D					2141	US	28 JAN	103.4	89.8		1022	813			
1966 005E					2889	US	28 JAN	109.4	89.5		1324	1072			
1966 005F					2989	US	28 JAN	103.6	89.9		1016	837			
1966 005J					11991	US	28 JAN	105.1	89.9		1152	843			
1966 006D					2001	USSR	31 JAN	BARYCENTRIC ORBIT							
1966 008A					1982	US	3 FEB	99.8	97.8		807	685			
1966 008B	ESSA 1				1983	US	3 FEB	99.3	97.8		789	664			
1966 008C					2085	US	3 FEB	96.8	97.7		622	585			
1966 008D					2118	US	3 FEB	100.4	98.0		885	668			
1966 008E					2154	US	3 FEB	99.2	97.8		766	672			
1966 013A					2016	FRANCE	17 FEB	116.0	34.1		2499	502			
1966 013B	D-1A				2017	FRANCE	17 FEB	114.8	34.1		2390	503			
1966 013G					2161	FRANCE	17 FEB	108.3	34.1		1794	498			
1966 016A					2091	US	28 FEB	113.4	100.9		1412	1352			
1966 016B					2096	US	28 FEB	113.4	101.1		1412	1350			
1966 016C					2223	US	28 FEB	111.8	101.1		1381	1238			
1966 016D					2224	US	28 FEB	115.0	101.1		1562	1346			
1966 016E					6214	US	28 FEB	114.2	101.6		1510	1329			
1965 024A					2119	US	26 MAR	104.9	89.8		1100	880			
1966 024B	NNSS 30080				2120	US	26 MAR	105.0	89.8		1107	883			
1966 025A	OVI-4				2121	US	30 MAR	104.0	144.5		1010	883			
1966 025B	OVI-5				2122	US	30 MAR	105.6	144.6		1056	985			

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1966 LAUNCHES (CONT.)										
1966 025C		2123	US	30 MAR	105.6	144.6	1056	987		
1966 025D		2124	US	30 MAR	104.0	144.5	1006	886		
1966 025E		3611	US	30 MAR	102.4	144.6	919	821		
1966 025G		5361	US	30 MAR	103.7	144.6	971	896		
1966 025H		5599	US	30 MAR	102.5	144.6	919	831		
1966 026A		2125	US	31 MAR	99.5	98.4	860	606		
1966 026B		2129	US	31 MAR	97.4	98.2	713	553		
1966 026D		2177	US	31 MAR	100.1	99.0	936	594		
1966 026F		2179	US	31 MAR	95.0	98.0	556	483		
1966 027A	LUNA 10	2126	USSR	31 MAR	SELENOCENTRIC ORBIT					
1966 027D		2130	USSR	31 MAR	HELIOCENTRIC ORBIT					
1966 027E		2131	USSR	31 MAR	BARYCENTRIC ORBIT					
1966 027F		2132	USSR	31 MAR	BARYCENTRIC ORBIT					
1966 031A	DAO 1	2142	US	8 APR	100.6	35.0	794	784		
1966 031B		2144	US	8 APR	100.3	35.0	777	765		
1966 034A	OV3-1	2150	US	22 APR	133.6	82.4	4218	339		
1966 034B		2157	US	22 APR	113.0	82.4	2406	323		
1966 040A	NIMBUS 2	2173	US	15 MAY	108.0	100.6	1173	1092		
1966 040B		2174	US	15 MAY	107.8	100.5	1166	1081		
1966 041A	NNSS 30090	2176	US	19 MAY	102.9	90.0	950	837		
1966 041B		2180	US	19 MAY	103.0	90.1	959	842		
1966 041C		2225	US	19 MAY	98.9	90.0	728	679		
1966 041D		2644	US	19 MAY	105.0	90.1	1158	829		
1966 041E		3591	US	19 MAY	102.9	90.1	951	838		
1966 041F		4555	US	19 MAY	101.7	90.0	891	789		
1966 045B		2187	US	30 MAY	BARYCENTRIC ORBIT					
1966 049A	OGO 3	2195	US	7 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1966 052A		2201	US	10 JUN	142.9	40.8	4707	642		
1966 052B		2206	US	10 JUN	142.5	40.9	4676	643		
1966 052C		2498	US	10 JUN	138.4	40.7	4387	585		
1966 052D		2516	US	10 JUN	144.5	41.0	4783	705		
1966 051A		2207	US	16 JUN	1334.0	4.2	33858	33663		
1966 053B		2215	US	16 JUN	1334.6	11.6	33895	33664		
1966 053C		2216	US	16 JUN	1335.3	4.9	33923	33657		
1966 053D		2217	US	16 JUN	1336.5	9.0	33989	33637		
1966 053E		2218	US	16 JUN	1338.6	8.0	34017	33694		
1966 053F		2219	US	16 JUN	1340.9	8.9	34093	33712		
1966 053G		2220	US	16 JUN	1344.0	8.9	34230	33695		
1966 053H		2221	US	16 JUN	1347.6	5.0	34359	33711		
1966 053J		2222	US	16 JUN	1349.4	12.1	34720	33422		
1966 056A	PAGFOS 1	2253	US	24 JUN	177.8	85.5	5069	3124		
1966 056B		2255	US	24 JUN	181.1	86.9	4281	4171		
1966 056C		2256	US	24 JUN	181.3	86.9	4280	4186		
1966 056D		2511	US	24 JUN	181.5	97.0	4261	4216		
1966 056G		8066	US	24 JUN	160.7	81.9	6372	450		
1966 056H		8074	US	24 JUN	171.8	85.5	6501	1217		
1966 056AH		9468	US	24 JUN	180.2	85.3	4725	3656		
1966 058A	EXPLORER 33	2258	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1966 058C		2260	US	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1966 063B		2327	US	14 JUL	104.0	144.2	963	932		

INTER- NATIONAL DESIGNATION		NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1966 LAUNCHES (CONT.)												
1966 063C			US	14 JUL		105.2	144.2	1013		997		
1966 063U			US	14 JUL		104.5	144.2	974		969		
1966 063E			US	14 JUL		105.2	144.2	1006		998		
1966 070A	OV3-3		US	4 AUG		122.6	81.4	3239		349		
1966 070B			US	4 AUG		92.1	81.3	500		254		
1966 070D			US	4 AUG		127.0	81.5	3574		410		
1966 073B			US	10 AUG		BARYCENTRIC ORBIT						
1966 075A	PIONEER 7		US	17 AUG		HELIOCENTRIC ORBIT						
1966 075C			US	17 AUG		HELIOCENTRIC ORBIT						
1966 076A	MNSS 30100		US	18 AUG		106.5	88.9	1090		1038		
1966 076B			US	18 AUG		106.6	88.9	1093		1042		
1966 075C			US	18 AUG		104.8	89.2	1060		912		
1966 076D			US	18 AUG		108.0	88.6	1199		1065		
1966 077A			US	19 AUG		167.4	89.7	3708		3659		
1966 077B	SECOR (EGRS) 7		US	19 AUG		167.5	89.7	3699		3672		
1966 077C	ERS 15		US	19 AUG		167.6	89.7	3700		3680		
1966 078A	LUNA 11		USSR	24 AUG		SELENOCENTRIC ORBIT						
1966 082A			US	16 SEP		100.2	98.4	860		675		
1966 082B			US	16 SEP		100.1	98.4	853		673		
1966 084R			US	20 SEP		BARYCENTRIC ORBIT						
1966 087A	ESSA 3		US	2 OCT		114.5	100.9	1483		1384		
1966 087B			US	2 OCT		114.5	101.0	1482		1381		
1966 087C			US	2 OCT		115.8	100.8	1557		1430		
1966 087D			US	2 OCT		113.2	101.0	1470		1277		
1966 087E			US	2 OCT		112.7	101.8	1376		1324		
1966 087F			US	2 OCT		CURRENT ELEMENTS NOT MAINTAINED						
1966 089A			US	5 OCT		167.5	90.1	3720		3656		
1966 089B	SECOR (EGRS) 8		US	5 OCT		167.6	90.1	3706		3675		
1966 094A	LUNA 12		USSR	22 OCT		SELENOCENTRIC ORBIT						
1966 0958			US	25 OCT		BARYCENTRIC ORBIT						
1966 096A	INTELSAT 2 F-1		ITSO	26 OCT		718.0	17.8	37091		3274		
1966 096C			US	26 OCT		464.5	17.8	26565		412		
1966 110A	ATS 1		US	7 DEC		1434.6	14.0	35784		35730		
1966 111A	OV1-9		US	11 DEC		140.1	99.1	4640		471		
1966 111B	OV1-10		US	11 DEC		96.4	93.4	622		553		
1966 111C			US	11 DEC		97.9	93.4	706		606		
1966 111D			US	11 DEC		139.3	99.1	4574		473		
1967 LAUNCHES												
1967 001A	INTELSAT 2 F-2		ITSO	11 JAN		CURRENT ELEMENTS NOT MAINTAINED						
1967 001D			US	11 JAN		427.2	26.8	24501		323		
1967 001S			US	11 JAN		515.1	26.3	29369		448		
1967 001T			US	11 JAN		141.6	26.6	5075		169		
1967 001V			US	11 JAN		123.5	26.6	3412		259		
1967 001W			US	11 JAN		369.3	29.7	21066		276		
1967 001X			US	11 JAN		656.4	27.9	36563		719		
1967 001AM			US	11 JAN		362.9	26.6	20694		256		
1967 001AN			US	11 JAN		512.1	26.6	29056		592		
1967 001AR			US	11 JAN		526.0	26.9	29903		507		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1967 LAUNCHES (CONT.)										
1967 003A		2645	US	18 JAN						CURRENT ELEMENTS NOT MAINTAINED
1967 003B		2649	US	18 JAN						CURRENT ELEMENTS NOT MAINTAINED
1967 003C		2650	US	18 JAN						CURRENT ELEMENTS NOT MAINTAINED
1967 003D		2651	US	18 JAN						CURRENT ELEMENTS NOT MAINTAINED
1967 003E		2652	US	18 JAN						CURRENT ELEMENTS NOT MAINTAINED
1967 003F		2653	US	18 JAN	1336.4	9.0	34029	33594		
1967 003G		2654	US	19 JAN						CURRENT ELEMENTS NOT MAINTAINED
1967 003H		2655	US	18 JAN						CURRENT ELEMENTS NOT MAINTAINED
1967 003J		2660	US	26 JAN	113.4	102.1	1437	1323		
1967 006A	ESSA 4	2661	US	26 JAN	113.5	102.0	1439	1338		
1967 0068		2706	US	26 JAN	114.2	102.1	1446	1390		
1967 006C		2707	US	26 JAN	112.5	101.8	1458	1228		
1967 006D		5971	US	26 JAN	113.1	102.0	1454	1280		
1967 006E		2669	US	8 FEB	101.1	99.1	847	772		
1967 010A		2741	US	8 FEB	101.1	99.0	849	768		
1967 010B		2674	FRANCE	8 FEB	101.5	40.0	1106	550		
1967 011A	DIADEME 1	2671	FRANCE	8 FEB	102.4	40.0	1188	555		
1967 011B		2680	FRANCE	15 FEB	108.6	39.5	1741	583		
1967 014A	DIADEME 2	2682	FRANCE	15 FEB	109.1	39.5	1789	584		
1967 014B		2684	FRANCE	15 FEB	106.4	40.0	1550	567		
1967 014C		2685	FRANCE	15 FEB	105.5	39.0	1475	560		
1967 014F		14505	FRANCE	15 FEB	105.2	38.8	1446	559		
1967 014J		18911	FRANCE	15 FEB	108.8	38.8	1790	555		
1967 014M		18928	FRANCE	15 FEB	93.9	39.4	533	392		
1967 014N		2717	ITSD	23 MAR						CURRENT ELEMENTS NOT MAINTAINED
1967 026A	INTELSAT 2 F-3	2754	US	14 APR	106.2	90.1	1068	1034		
1967 034A	NNSS 30120	2755	US	14 APR	106.4	90.1	1072	1043		
1967 034B		2777	US	14 APR	103.3	90.3	1017	809		
1967 034C		2778	US	14 APR	108.2	90.2	1239	1046		
1967 034D		4843	US	14 APR	106.6	90.4	1092	1047		
1967 034E		2764	US	17 APR						8ARYCENTRIC ORBIT
1967 035B		2757	US	20 APR	113.5	102.0	1419	1352		
1967 036A		2758	US	20 APR	113.5	102.0	1417	1354		
1967 036B		2976	US	20 APR	112.3	102.1	1408	1256		
1967 036C	ESSA 5	2977	US	20 APR	114.5	101.4	1481	1388		
1967 036D		2765	US	28 APR						CURRENT ELEMENTS NOT MAINTAINED
1967 040A		2766	US	28 APR						CURRENT ELEMENTS NOT MAINTAINED
1967 040B		2767	US	28 APR						CURRENT ELEMENTS NOT MAINTAINED
1967 040C	ERS 18	2768	US	28 APR						CURRENT ELEMENTS NOT MAINTAINED
1967 040D	ERS 20	2769	US	28 APR						CURRENT ELEMENTS NOT MAINTAINED
1967 040E	ERS 27	2770	US	28 APR						CURRENT ELEMENTS NOT MAINTAINED
1967 040F		2780	US	9 MAY	93.6	84.9	480	417		
1967 043B		2801	USSR	15 MAY	100.3	74.0	812	729		
1967 045A	COSMOS 158	2802	USSR	15 MAY	100.1	74.0	813	708		
1967 045B		2807	US	18 MAY	106.7	89.6	1086	1060		
1967 048A	NNSS 30130	2811	US	18 MAY	106.8	89.6	1090	1063		
1967 048B		17723	US	18 MAY	97.6	89.6	547	542		
1967 048C		19222	US	18 MAY	101.5	89.6	867	789		
1967 048D		2826	US	31 MAY	101.5	69.9	841	826		

INTER- NATIONAL DESIGNATION		NAME	OBJECTS IN ORBIT				CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES	
1967 LAUNCHES (CONT.)																
1967 053B																
1967 053C	GRAVITY GRADIENT 4					2825	US	31 MAY	103.2	70.0		915	901			
1967 053D	GRAVITY GRADIENT 5					2828	US	31 MAY	103.2	70.0		915	900			
1967 053E						2834	US	31 MAY	103.2	70.0		917	903			
1967 053F						2847	US	31 MAY	103.0	70.0		905	891			
1967 053G						2872	US	31 MAY	103.1	70.0		911	897			
1967 053H						2873	US	31 MAY	103.1	70.0		914	899			
1967 053J						2874	US	31 MAY	103.2	70.0		917	902			
1967 053K						2909	US	31 MAY	101.3	69.9		821	819			
1967 060A	MARINER 5					19245	US	31 MAY	102.7	70.0		894	876			
1967 060B						2845	US	14 JUN	HELIOCENTRIC ORBIT							
1967 065A	SECOR (EGRS) 9					2846	US	14 JUN	HELIOCENTRIC ORBIT							
1967 065B	AURORA 1					2861	US	29 JUN	172.1	90.1		3947	3791			
1967 065C						2876	US	29 JUN	172.1	90.1		3948	3791			
1967 066A	TITAN 3 C-14					2877	US	29 JUN	172.1	90.1		3952	3787			
1967 066B						2862	US	1 JUL	1309.7	1.2		33540	33010			
1967 066C						2863	US	1 JUL	1310.4	1.2		33549	33030			
1967 066D						2864	US	1 JUL	1211.7	10.5		33413	29130			
1967 066E						2865	US	1 JUL	1313.6	10.6		33580	33126			
1967 066F	DODGE					2866	US	1 JUL	1316.1	10.6		33611	33196			
1967 066G						2867	US	1 JUL	1319.1	10.6		33668	33260			
1967 068B						2868	US	1 JUL	1319.1	10.6		33671	33257			
1967 070A	EXPLORER 35					2883	US	14 JUL	BARYCENTRIC ORBIT							
1967 075B						2884	US	19 JUL	SELENOCENTRIC ORBIT							
1967 080A						2908	US	1 AUG	BARYCENTRIC ORBIT							
1967 080B						2920	US	23 AUG	101.9	99.0		875	819			
1967 084B						2940	US	23 AUG	101.8	98.9		872	815			
1967 092A	NNSS 30140					2938	US	8 SEP	BARYCENTRIC ORBIT							
1967 092B						2965	US	25 SEP	106.5	89.3		1104	1025			
1967 092C						2967	US	25 SEP	106.5	89.2		1101	1031			
1967 092D						2994	US	25 SEP	103.7	89.4		1008	859			
1967 094A	INTELSAT 2 F-4					3122	US	25 SEP	108.8	89.1		1317	1029			
1967 094C						2969	ITSO	28 SEP	1437.5	14.0		35857	35769			
1967 096A						2971	US	28 SEP	CURRENT ELEMENTS NOT MAINTAINED							
1967 096B						2980	US	11 OCT	99.2	99.2		800	640			
1967 096B						2985	US	11 OCT	99.0	99.2		789	636			
1967 104B	ATS 3					3019	USSR	27 OCT	95.8	64.0		634	478			
1967 111A						3029	US	5 NOV	1436.1	13.9		35850	35723			
1967 112B						3034	US	7 NOV	BARYCENTRIC ORBIT							
1967 114A	ESSA 6					3035	US	10 NOV	114.8	102.3		1483	1406			
1967 114B						3036	US	10 NOV	114.8	102.3		1483	1408			
1967 114C						3051	US	10 NOV	114.1	101.4		1482	1343			
1967 114D						3123	US	10 NOV	115.4	102.6		1493	1449			
1967 114E						5443	US	10 NOV	114.6	101.6		1483	1386			
1967 116A	COSMOS 192					3047	USSR	23 NOV	99.2	74.0		726	718			
1967 116B						3048	USSR	23 NOV	99.1	74.0		721	711			
1967 123A	PIONEER 8					3066	US	13 DEC	HELIOCENTRIC ORBIT							
1967 127A	COSMOS 198					3081	USSR	27 DEC	103.4	65.1		939	895			
1968 LAUNCHES																

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLT- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1968 001B		3092	US	7 JAN						
1968 002A	EXPLORER 36	3093	US	11 JAN	112.2	105.8	1571	1080		
1968 002B		3094	US	11 JAN	112.1	105.8	1563	1079		
1968 002C		3126	US	11 JAN	112.3	106.1	1581	1082		
1968 002D		3127	US	11 JAN	112.1	105.3	1570	1074		
1968 011A	COSMOS 203	3129	USSR	20 FEB	109.2	74.0	1199	1181		
1968 011B		3131	USSR	20 FEB	109.2	74.1	1201	1180		
1968 012A	NNSS 30180	3133	US	2 MAR	106.7	90.0	1131	1014		
1968 012B		3137	US	2 MAR	106.7	90.0	1133	1017		
1968 012C		3213	US	2 MAR	104.7	90.0	1080	875		
1968 012D		3214	US	2 MAR	108.6	90.1	1304	1018		
1968 013A	ZONO 4	3134	USSR	2 MAR						
1968 014A	OGO 5	3138	US	4 MAR						
1968 014B		3145	US	4 MAR						
1968 014C		3151	USSR	14 MAR	92.7	81.2	426	386		
1968 014D		3158	USSR	22 MAR	103.0	65.3	934	870		
1968 023A	COSMOS 209	3173	US	6 APR	198.8	100.0	9250	558		
1968 026A	OVI-13	3174	US	6 APR	207.2	100.0	9852	585		
1968 026B	OVI-14	3177	US	6 APR	207.0	100.1	9848	580		
1968 026C		3212	US	6 APR	198.4	100.0	9205	572		
1968 027A	LUNA 14	3178	USSR	7 APR	98.2	74.0	704	640		
1968 040A	COSMOS 220	3229	USSR	7 MAY	97.9	74.0	687	627		
1968 040B		3230	USSR	7 MAY	101.8	99.0	885	806		
1968 042A		3266	US	23 MAY	101.8	98.9	881	804		
1968 042B		3271	US	23 MAY						
1968 050A		3284	US	13 JUN						
1968 050B		3295	US	13 JUN						
1968 050C		3286	US	13 JUN						
1968 050D		3287	US	13 JUN						
1968 050E		3288	US	13 JUN						
1968 050F		3289	US	13 JUN						
1968 050G		3290	US	13 JUN						
1968 050H		3291	US	13 JUN						
1968 050J		3292	US	13 JUN	1363.7	12.4	35032	33680		
1968 055A	EXPLORER 38	3307	US	4 JUL	224.3	120.8	5857	5840		
1968 055B		3315	US	4 JUL	155.7	120.7	5741	676		
1968 055C		3848	US	4 JUL	224.1	120.8	5863	5824		
1968 055D		4841	US	4 JUL	155.3	120.8	5745	638		
1968 063A		3334	US	6 AUG						
1968 066B	EXPLORER 40	3338	US	8 AUG	117.9	80.7	2496	676		
1968 066C		3341	US	8 AUG	117.8	80.7	2483	678		
1968 066D		3342	US	8 AUG	108.0	80.6	1636	632		
1968 066E		3343	US	8 AUG	104.2	80.5	1329	585		
1968 066F		3390	US	8 AUG	108.6	80.6	1673	653		
1968 066G		3391	US	8 AUG	107.9	80.7	1641	615		
1968 066H		3392	US	8 AUG	111.3	80.7	1897	672		
1968 066J		3393	US	8 AUG	109.1	80.6	1721	652		
1968 067A	ESSA 7	3345	US	16 AUG	114.9	101.4	1471	1428		
1968 069B		3346	US	16 AUG	114.8	101.4	1463	1426		
1968 069C		3416	US	16 AUG	113.6	101.9	1485	1299		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1968 LAUNCHES (CONT.)											
1968 069D		3417	US	15 AUG	116.1	102.3	1557	1454			
1968 069E		3974	US	16 AUG	114.9	102.1	1477	1421			
1968 069F		3975	US	16 AUG	114.8	101.5	1482	1414			
1968 069G		4499	US	16 AUG	115.1	101.4	1480	1435			
1968 081A	OV2-5	3428	US	26 SEP	1418.1	11.9	37428	33440			
1968 081C	ERS 21	3430	US	26 SEP	CURRENT ELEMENTS NOT MAINTAINED						
1968 081D	LES 6	3431	US	26 SEP	1435.6	12.2	35801	35751			
1968 081E		3432	US	26 SEP	1419.3	11.8	35814	35100			
1968 091A	COSMOS 249	3504	USSR	20 OCT	111.5	62.4	2077	513			
1968 091B - 91DP			USSR	20 OCT	SEE NOTE 8*						8*
1968 092A		3510	US	23 OCT	101.0	98.6	829	785			
1968 092B		3522	US	23 OCT	100.9	98.7	824	780			
1968 097A	COSMOS 252	3530	USSR	1 NOV	112.1	62.3	2094	548			
1968 097B - 097EU			USSR	1 NOV	SEE NOTE 10*						10*
1968 100A	PIONEER 9	3533	US	8 NOV	HELIOCENTRIC ORBIT						
1968 106A	COSMOS 256	3576	USSR	30 NOV	109.3	74.0	1222	1169			
1968 106B		3577	USSR	30 NOV	109.2	74.0	1216	1161			
1968 110A	DAO-A2	3597	US	7 DEC	99.9	35.0	760	751			
1968 110B		3598	US	7 DEC	99.6	35.0	779	700			
1968 1123		3605	US	12 DEC	114.3	80.4	1468	1376			
1968 112C		3617	US	12 DEC	114.0	80.2	1444	1373			
1968 112D		3618	US	12 DEC	114.7	80.5	1506	1374			
1968 112E		3840	US	12 DEC	114.4	80.6	1454	1402			
1968 114A	ESSA 8	3615	US	15 DEC	114.6	101.7	1461	1411			
1968 114B		3616	US	15 DEC	115.0	101.8	1467	1446			
1968 114C		3811	US	15 DEC	112.8	102.0	1462	1248			
1968 114D		3812	US	15 DEC	116.3	102.4	1570	1458			
1968 116A	INTELSAT 3 F-2	3623	ITSO	19 DEC	1475.2	14.3	37127	35968			
1968 118B		3627	US	21 DEC	HELIOCENTRIC ORBIT						
1969 LAUNCHES											
1969 003A	ISIS 1	3669	CANADA	30 JAN	127.7	88.4	3473	574			
1969 0093		3670	US	30 JAN	126.7	88.4	3384	574			
1969 0103		3673	US	5 FEB	114.0	80.4	1429	1391			
1969 010C		3941	US	5 FEB	113.7	80.2	1419	1370			
1969 011A	INTELSAT 3 F-3	3674	ITSO	6 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1969 011B		5977	US	6 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1969 013A		3691	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1969 013B		3692	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1969 013C	MARINER 6	3759	US	25 FEB	CURRENT ELEMENTS NOT MAINTAINED						
1969 014A		3760	US	25 FEB	HELIOCENTRIC ORBIT						
1969 014B	ESSA 9	3764	US	25 FEB	115.2	101.4	1503	1423			
1969 016A		3767	US	26 FEB	115.1	101.4	1497	1418			
1969 016B		3770	US	26 FEB	HELIOCENTRIC ORBIT						
1969 019B		3818	USSR	3 MAR	109.2	74.0	1206	1176			
1969 024A	COSMOS 272	3819	USSR	17 MAR	109.1	74.0	1193	1177			
1969 024B		5285	USSR	17 MAR	108.8	74.0	1178	1166			
1969 024C		3825	US	18 MAR	151.6	104.8	5601	475			
1969 025C	OV1-13	3827	US	18 MAR	150.5	104.8	5496	488			
1969 025E											

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1969 LAUNCHES (CONT.)										
1969 029A	METEOR	3835	USSR	26 MAR	96.1	81.2	590	556		
1969 030A	MARINER 7	3837	US	27 MAR						
1969 030B		3845	US	27 MAR						
1969 036A		3889	US	13 APR						
1969 037A	NIMBUS 3	3890	US	14 APR	107.2	100.0	1129	1069		
1969 037B	SECOR (EGRS) 13	3891	US	14 APR	107.2	100.0	1127	1067		
1969 037C		3892	US	14 APR	107.3	100.0	1132	1072		
1969 043B		3943	US	18 MAY						
1969 043C	LM/DESCENT	3948	US	18 MAY						
1969 043D	LM/ASCENT	3949	US	18 MAY						
1969 045A	INTELSAT 3 F-4	3947	ITSO	22 MAY						
1969 046A	OV5-5/ERS-29	3950	US	23 MAY						
1969 046B	OV5-6	3951	US	23 MAY						
1969 046C	OV5-9	3952	US	23 MAY						
1969 046D		3954	US	23 MAY						
1969 046E		3955	US	23 MAY						
1969 046F		3956	US	23 MAY						
1969 053B		3993	US	21 JUN						
1969 059B		4040	US	16 JUL						
1969 059C	LUNAR MODULE	4041	US	16 JUL						
1969 062A		4047	US	23 JUL	100.9	98.9	835	769		9*
1969 062B		4048	US	23 JUL	100.8	98.8	830	766		
1969 064C		4053	US	26 JUL	124.1	30.3	3458	265		
1969 069A	ATS 5	4068	US	12 AUG	1447.4	13.4	36026	35987		
1969 069B		4069	US	12 AUG	703.3	17.2	37357	2280		
1969 069C		5991	US	12 AUG	682.2	17.2	36497	2086		
1969 069D		21052	US	12 AUG	1466.8	13.2	36933	35836		
1969 070A	COSMOS 292	4070	USSR	13 AUG	99.4	74.0	736	720		
1969 070B		4071	USSR	13 AUG	99.0	74.0	722	700		
1969 070C		4084	USSR	13 AUG	99.7	74.1	761	727		
1969 070D		18912	USSR	13 AUG	98.4	74.0	714	652		
1969 082B		4256	US	30 SEP	103.1	70.0	923	890		
1969 082C		4257	US	30 SEP	103.3	70.0	928	896		
1969 082D		4259	US	30 SEP	103.3	70.0	930	897		
1969 082E		4237	US	30 SEP	103.3	70.0	929	896		
1969 082F		4247	US	30 SEP	103.3	70.0	929	897		
1969 082G		4295	US	30 SEP	103.3	70.0	929	896		
1969 082H		4168	US	30 SEP	103.3	70.0	929	896		
1969 082J		4166	US	30 SEP	101.2	70.0	823	805		
1969 082K		4132	US	30 SEP	102.2	70.0	878	847		
1969 082L	- 082LF		US	30 SEP	SEE NOTE	11*				11*
1969 084A	METEOR	4119	USSR	6 OCT	95.6	81.2	562	531		
1969 084B		4120	USSR	6 OCT	94.6	81.2	542	452		
1969 091A	COSMOS 304	4138	USSR	21 OCT	99.6	74.0	750	731		
1969 091B		4139	USSR	21 OCT	99.0	74.0	712	705		
1969 097A	GRS-A/AZUR	4221	FRG	8 NOV	111.5	102.7	2216	373		
1969 097B		4222	US	8 NOV	102.6	102.9	1405	355		
1969 099B		4226	US	14 NOV						
1969 101A	SKYNET A	4250	UK	22 NOV	1435.2	12.7	35900	35676		
1969 101B		4251	US	22 NOV						

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1969 LAUNCHES (CONT.)										
1969 103A	COSMOS 312	4254	USSR	24 NOV	108.5	74.0	1173	1139		
1969 103B		4255	USSR	24 NOV	108.3	74.0	1156	1139		
1970 LAUNCHES										
1970 003A	INTELSAT 3 F-6	4297	ITSO	15 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1970 003B		4298	US	15 JAN	526.8	28.0	30110	344		
1970 008A	ITOS 1	4320	US	23 JAN	115.0	101.3	1477	1431		
1970 008B	OSCAR 5	4321	AUSTRL	23 JAN	115.0	101.3	1475	1431		
1970 009C		4322	US	23 JAN	115.0	101.3	1477	1432		
1970 009A	SERT 2	4327	US	4 FEB	106.0	99.2	1045	1037		
1970 011A	OHSUMI	4330	JAPAN	11 FEB	116.3	31.1	2700	327		
1970 012A		4331	US	11 FEB	100.8	98.9	841	751		
1970 012B		4332	US	11 FEB	100.9	98.9	845	753		
1970 021A	NATO 1	4353	NATO	20 MAR	1436.1	12.2	35804	35768		
1970 021B		4354	US	20 MAR	527.4	26.3	29851	638		
1970 021C		5975	US	20 MAR	544.2	25.3	31117	284		
1970 025A	NIMBUS 4	4362	US	8 APR	107.1	99.9	1097	1086		
1970 025B	TOPO 1	4363	US	8 APR	106.9	99.7	1084	1081		
1970 025C	- 025QG		US	8 APR	SEE NOTE 12*					
1970 025QG		21721	US	8 APR	106.5	100.1	1063	1061		12*
1970 027A		4366	US	8 APR	CURRENT ELEMENTS NOT MAINTAINED					
1970 027B		4368	US	8 APR	CURRENT ELEMENTS NOT MAINTAINED					
1970 028A	COSMOS 332	4369	USSR	11 APR	99.5	74.0	738	728		
1970 028B		4370	USSR	11 APR	99.1	74.0	730	704		
1970 028C		14814	USSR	11 APR	98.6	74.0	701	683		
1970 032A	INTELSAT 3 F-7	4376	ITSO	23 APR	CURRENT ELEMENTS NOT MAINTAINED					
1970 032B		4377	US	23 APR	CURRENT ELEMENTS NOT MAINTAINED					
1970 034A	MAO 1	4382	PRC	24 APR	111.8	68.4	2184	429		
1970 034B		4392	PRC	24 APR	101.6	68.4	1255	409		
1970 036A	COSMOS 336	4383	USSR	24 APR	115.4	74.0	1484	1460		
1970 036B	COSMOS 337	4384	USSR	25 APR	116.2	74.0	1550	1466		
1970 036C	COSMOS 338	4385	USSR	25 APR	115.8	74.0	1515	1466		
1970 036D	COSMOS 339	4386	USSR	25 APR	115.0	74.0	1466	1443		
1970 036E	COSMOS 340	4387	USSR	25 APR	114.6	74.0	1467	1405		
1970 036F	COSMOS 341	4388	USSR	25 APR	113.9	74.0	1466	1340		
1970 036G	COSMOS 342	4389	USSR	25 APR	113.5	74.0	1465	1309		
1970 036H	COSMOS 343	4390	USSR	25 APR	114.2	74.0	1466	1372		
1970 036J		4391	USSR	25 APR	116.6	74.0	1586	1465		
1970 037A	METEOR	4393	USSR	28 APR	96.1	81.2	592	548		
1970 037B		4394	USSR	28 APR	96.7	81.2	673	528		
1970 046A		4418	US	19 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1970 046B		4511	US	19 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1970 047A	METEOR	4419	USSR	23 JUN	101.8	81.2	873	816		
1970 047B		4420	USSR	23 JUN	102.0	81.2	919	791		
1970 055A	INTELSAT 3 F-8	4478	ITSO	23 JUL	1408.2	13.6	36638	33840		
1970 055B		4486	US	23 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1970 062A	SKYNET 8	4493	UK	19 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1970 067A	NSS 30190	4507	US	27 AUG	106.7	90.1	1205	943		
1970 067B		4515	US	27 AUG	106.8	90.1	1209	945		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1970 LAUNCHES (CONT.)										
1970 067C		5036	US	27 AUG	102.9	90.1	914	874		
1970 067D		5447	US	27 AUG	109.1	90.1	1430	944		
1970 069A		4510	US	1 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1970 070A		4512	US	3 SEP	100.7	98.9	839	740		
1970 070B		4513	US	3 SEP	100.7	99.0	844	742		
1970 079A	COSMOS 367	4564	USSR	3 OCT	104.5	65.3	1022	915		
1970 083A	COSMOS 371	4578	USSR	12 OCT	99.3	74.0	729	725		
1970 083B		4579	USSR	12 OCT	99.1	74.0	723	705		
1970 085A	METEOR	4583	USSR	15 OCT	94.4	81.2	490	486		
1970 085B		4594	USSR	15 OCT	95.0	81.2	567	467		
1970 086A	COSMOS 372	4588	USSR	16 OCT	100.4	74.1	789	767		
1970 086B		4599	USSR	16 OCT	100.2	74.1	783	751		
1970 086C		5357	USSR	16 OCT	98.5	74.0	693	679		
1970 086D		5358	USSR	16 OCT	99.3	74.0	729	717		
1970 086E		4594	USSR	23 OCT	107.3	63.0	1660	541		13*
1970 089A	COSMOS 374		USSR	23 OCT	SEE NOTE					
1970 089B	- 0890G	4598	USSR	30 OCT	111.3	62.8	2016	558		15*
1970 091A	COSMOS 375		USSR	30 OCT	SEE NOTE					
1970 091B	- 091AX		US	6 NOV	1197.9	16.2	36109	25861		
1970 093A		4630	US	6 NOV	1197.8	16.2	36148	25815		
1970 093B		4632	US	2 DEC	104.8	74.0	1006	959		
1970 102A	COSMOS 381	4783	USSR	2 DEC	104.6	74.0	997	956		
1970 102B		4784	USSR	2 DEC	97.5	74.0	643	631		
1970 102C		4840	USSR	2 DEC	104.0	74.0	962	935		
1970 102D		5225	USSR	2 DEC	104.2	74.0	972	940		
1970 102E		8764	USSR	2 DEC	99.7	74.0	752	737		
1970 102F		9794	USSR	2 DEC	171.0	55.9	5259	2394		
1970 103A	COSMOS 382	4786	USSR	2 DEC	158.8	51.6	5083	1588		
1970 103B		4789	USSR	2 DEC	159.1	51.6	5087	1610		
1970 103C		4790	USSR	2 DEC	145.7	50.7	4225	1358		
1970 103G		12854	USSR	2 DEC	114.8	101.3	1471	1421		
1970 106A	NOAA 1	4793	US	11 DEC	114.9	101.3	1478	1420		
1970 106B		4794	US	11 DEC	116.4	102.3	1540	1493		
1970 106C		8828	US	12 DEC	104.6	74.0	978	972		
1970 108A	COSMOS 385	4799	USSR	12 DEC	104.5	74.0	976	962		
1970 108B		4800	USSR	12 DEC	96.5	15.0	619	560		
1970 109B		4802	FRANCE	12 DEC	96.1	81.2	583	555		
1970 113A	COSMOS 389	4813	USSR	18 DEC	96.6	81.2	639	550		
1970 113B		4814	USSR	19 DEC						
1971 LAUNCHES										
1971 000A		4924	US	UNKN	95.6	18.0	906	192		14*
1971 003A	METEOR	4849	USSR	20 JAN	95.8	81.2	562	548		
1971 003B		4850	USSR	20 JAN	95.6	81.2	595	498		
1971 003C		18277	USSR	20 JAN	94.5	81.2	531	459		
1971 006A	INTELSAT 4 F-2	4881	ITSO	26 JAN	1458.1	11.8	35551	35880		
1971 006d		4882	US	26 JAN	553.4	28.4	36485	641		
1971 009A	NATO 2	4902	NATO	3 FEB	1436.0	12.8	35810	35758		
1971 009B		4903	US	3 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1971 009D		5986	US	3 FEB	CURRENT ELEMENTS NOT MAINTAINED					

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1971 LAUNCHES (CONT.)										
1971 010A	COSMOS 394	4922	USSR	9 FEB	95.5	65.8	550	534		
1971 011A	TANSEL 1	4952	JAPAN	16 FEB	106.1	29.7	1106	987		
1971 0112		5126	JAPAN	16 FEB	104.8	29.7	993	976		
1971 012A		4953	US	17 FEB	100.3	98.7	801	742		
1971 012B		4954	US	17 FEB	100.4	98.7	804	748		
1971 015A	COSMOS 397	4964	USSR	25 FEB	113.2	65.7	2182	562		
1971 015B	- O15DV		USSR	25 FEB	SEE NOTE		16*			16*
1971 016A	COSMOS 398	4966	USSR	26 FEB	119.4	51.5	3117	193		
1971 020A	COSMOS 400	5050	USSR	19 MAR	104.9	65.8	998	983		
1971 020B		5051	USSR	18 MAR	104.7	65.8	1014	948		
1971 020C		5052	USSR	18 MAR	104.9	65.8	997	981		
1971 021A		5053	US	21 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1971 021B		5054	US	21 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1971 024A	ISIS 2	5104	CANADA	1 APR	113.5	88.2	1423	1353		
1971 024B		5106	US	1 APR	113.5	88.2	1419	1351		
1971 024C		5360	US	1 APR	113.5	88.3	1422	1354		
1971 025A	COSMOS 402	5105	USSR	1 APR	104.9	65.0	1023	953		
1971 028A	COSMOS 405	5117	USSR	7 APR	96.8	81.2	609	604		
1971 028B		5118	USSR	7 APR	97.0	81.2	666	567		
1971 023D		5724	USSR	7 APR	96.1	81.2	577	570		
1971 031B		5143	USSR	17 APR	94.9	81.2	547	476		
1971 035A	COSMOS 407	5174	USSR	23 APR	100.6	74.0	801	774		
1971 035B		5175	USSR	23 APR	100.4	74.0	800	754		
1971 035C		5300	USSR	23 APR	99.5	74.0	743	729		
1971 035D		5301	USSR	23 APR	99.9	74.0	766	743		
1971 038A	COSMOS 409	5180	USSR	28 APR	109.2	74.0	1209	1174		
1971 038B		5181	USSR	28 APR	109.0	74.0	1224	1139		
1971 039A		5204	US	5 MAY	ELEMENTS NOT AVAILABLE					
1971 039B		5205	US	5 MAY	ELEMENTS NOT AVAILABLE					
1971 041A	COSMOS 411	5210	USSR	7 MAY	113.8	74.0	1488	1313		
1971 041B	COSMOS 412	5211	USSR	7 MAY	116.1	74.0	1534	1477		
1971 041C	COSMOS 413	5212	USSR	7 MAY	115.7	74.0	1505	1471		
1971 041D	COSMOS 414	5213	USSR	7 MAY	115.1	74.0	1491	1424		
1971 041E	COSMOS 415	5214	USSR	7 MAY	115.4	74.0	1498	1448		
1971 041F	COSMOS 416	5215	USSR	7 MAY	114.4	74.0	1489	1369		
1971 041G	COSMOS 417	5216	USSR	7 MAY	114.1	74.0	1489	1341		
1971 041H	COSMOS 418	5217	USSR	7 MAY	114.7	74.0	1491	1396		
1971 041J		5218	USSR	7 MAY	116.8	74.0	1590	1485		
1971 045A	MARS 2	5234	USSR	19 MAY	AREOCENTRIC ORBIT					
1971 045A	COSMOS 422	5238	USSR	22 MAY	105.0	74.0	1003	980		
1971 0463		5239	USSR	22 MAY	104.8	74.0	994	977		
1971 049A	MARS 3	5252	USSR	28 MAY	AREOCENTRIC ORBIT					
1971 051A	MARTINER 9	5261	US	30 MAY	AREOCENTRIC ORBIT					
1971 051B		5267	US	30 MAY	HELIOCENTRIC ORBIT					
1971 052A	COSMOS 426	5281	USSR	4 JUN	100.6	74.0	1211	357		
1971 052B		5282	USSR	4 JUN	101.5	74.0	1296	360		
1971 052C		5323	USSR	16 JUL	95.1	81.2	563	484		
1971 063D	APOLLO 15 SUGSATELLITE	5377	US	25 JUL	SELENOCENTRIC ORBIT					
1971 067A		5397	US	7 AUG	101.7	87.6	897	778		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1971 LAUNCHES (CONT.)											
1971 067E		5398	US	7 AUG	101.1	87.6	863	756			
1971 067J		5405	US	7 AUG	97.4	87.6	657	610			
1971 067K		5395	US	7 AUG	101.0	87.6	857	752			
1971 067L		5399	US	7 AUG	97.7	87.6	672	623			
1971 067M		5400	US	7 AUG	97.5	87.6	661	616			
1971 067N		5384	US	7 AUG	101.4	87.6	887	761			
1971 069C		5426	USSR	12 AUG	99.7	49.6	824	659			
1971 071A	EOLE 1	5435	FRANCE	16 AUG	99.8	50.1	843	653			
1971 071B		5438	US	16 AUG	99.7	50.2	833	649			
1971 071C		5440	US	16 AUG	97.0	50.7	668	561			
1971 073B		5449	USSR	2 SEP	SELENOCENTRIC ORBIT						
1971 080A	SHINSEI	5485	JAPAN	28 SEP	113.1	32.1	1867	872			
1971 080B		5498	JAPAN	28 SEP	111.9	32.0	1755	871			
1971 082A	LUNA 19	5483	USSR	28 SEP	SELENOCENTRIC ORBIT						
1971 082C		5490	USSR	28 SEP	SELENOCENTRIC ORBIT						
1971 086A	COSMOS 444	5547	USSR	13 OCT	114.1	74.0	1506	1318			
1971 086B	COSMOS 445	5548	USSR	13 OCT	114.4	74.0	1509	1348			
1971 086C	COSMOS 446	5549	USSR	13 OCT	114.8	74.0	1509	1379			
1971 086D	COSMOS 447	5550	USSR	13 OCT	115.1	74.0	1512	1408			
1971 086E	COSMOS 448	5551	USSR	13 OCT	115.5	74.0	1515	1437			
1971 086F	COSMOS 449	5552	USSR	13 OCT	116.2	74.0	1539	1481			
1971 086G	COSMOS 450	5553	USSR	13 OCT	115.8	74.0	1526	1460			
1971 086H	COSMOS 451	5554	USSR	13 OCT	116.6	74.0	1571	1486			
1971 086J		5555	USSR	13 OCT	117.3	74.0	1621	1501			
1971 087A		5557	US	14 OCT	101.2	99.2	852	773			
1971 087B		5556	US	14 OCT	101.3	99.1	869	775			
1971 089A		5560	US	17 OCT	99.9	92.7	766	738			
1971 093A	PROSPERO	5580	UK	28 OCT	104.6	82.0	1416	533			
1971 093B		5581	UK	28 OCT	104.7	82.0	1427	532			
1971 095A		5587	US	3 NOV	1436.3	12.6	35812	35767			
1971 095B		5588	US	3 NOV	1434.4	12.5	35812	35694			
1971 095C		5589	US	3 NOV	1481.7	13.2	37393	35955			
1971 096A	EXPLORER 45	5598	US	15 NOV	99.0	3.7	1209	212			
1971 099A	COSMOS 457	5614	USSR	20 NOV	109.4	74.0	1215	1181			
1971 099B		5615	USSR	20 NOV	109.3	74.0	1209	1174			
1971 110A		5678	US	14 DEC	ELEMENTS NOT AVAILABLE						
1971 110B		5679	US	14 DEC	ELEMENTS NOT AVAILABLE						
1971 110C		5680	US	14 DEC	ELEMENTS NOT AVAILABLE						
1971 110D		5681	US	14 DEC	ELEMENTS NOT AVAILABLE						
1971 110E		5682	US	14 DEC	ELEMENTS NOT AVAILABLE						
1971 111A	COSMOS 465	5683	USSR	15 DEC	104.8	74.0	1005	963			
1971 111B		5685	USSR	15 DEC	104.6	74.0	994	959			
1971 114A	COSMOS 468	5705	USSR	17 DEC	107.5	74.0	790	769			
1971 114B		5707	USSR	17 DEC	100.3	74.0	792	755			
1971 114C		5778	USSR	17 DEC	99.8	74.0	759	737			
1971 114D		5858	USSR	17 DEC	99.7	74.0	752	734			
1971 116A	INTELSAT 4 F-3	5709	ITSD	20 DEC	1445.5	9.5	35025	35917			
1971 117A	COSMOS 469	5721	USSR	25 DEC	104.5	64.5	1016	939			
1971 119A	OREOL 1	5729	USSR	27 DEC	109.3	74.0	1997	389			
1971 119B		5730	USSR	27 DEC	103.5	73.9	1940	385			

INTER- NATIONAL DESIGNATION		NAME		OBJECTS IN ORBIT				PERIGEE KM.				TRANSMITTING FREQ.(MHZ)		NOTES	
CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES							
1971 LAUNCHES (CONT.)															
5731	USSR	29 DEC	102.5	81.3	912	838									
5732	USSR	29 DEC	102.1	81.3	873	837									
8826	USSR	29 DEC	101.0	81.2	820	788									
8827	USSR	29 DEC	101.9	81.3	860	839									
15344	USSR	29 DEC	98.7	81.2	704	684									
1972 LAUNCHES															
5775	ITSO	23 JAN	1442.4	8.9	35943	35878									
5816	US	23 JAN	653.0	27.9	36450	659									
5836	USSR	14 FEB	SELENOCENTRIC ORBIT												
5846	USSR	25 FEB	104.6	74.0	995	960									
5847	USSR	25 FEB	104.4	74.0	990	944									
5851	US	1 MAR	ELEMENTS NOT AVAILABLE												
5854	US	1 MAR	ELEMENTS NOT AVAILABLE												
5853	USSR	1 MAR	94.0	81.2	492	444									
5860	US	3 MAR	SOLAR SYSTEM ESCAPE TRAJECTORY												
5861	US	3 MAR	HELIOCENTRIC ORBIT												
5903	US	24 MAR	101.3	98.9	860	782									
5904	US	24 MAR	101.3	98.9	855	784									
5905	USSR	25 MAR	109.1	83.0	1197	1169									
5907	USSR	25 MAR	108.9	83.0	1190	1160									
5917	USSR	30 MAR	102.3	81.2	878	854									
5918	USSR	30 MAR	102.5	81.2	918	832									
6073	USSR	31 MAR	159.4	52.1	6501	217									
5941	USSR	14 APR	CURRENT ELEMENTS NOT MAINTAINED												
6005	US	16 APR	SELENOCENTRIC ORBIT												
6019	USSR	6 MAY	104.7	74.0	996	960		9*							
6020	USSR	6 MAY	104.5	74.0	985	954									
6052	ITSO	13 JUN	1438.7	9.9	35848	35828									
6058	US	13 JUN	650.4	26.4	36391	586									
6059	USSR	23 JUN	100.5	74.1	787	773									
6061	USSR	23 JUN	100.2	74.1	784	752									
6063	USSR	23 JUN	99.5	74.1	741	726									
6065	USSR	23 JUN	99.8	74.1	760	735									
6079	USSR	30 JUN	102.7	81.2	894	876									
6080	USSR	30 JUN	102.8	81.2	927	856									
20348	USSR	30 JUN	102.8	81.2	926	855									
6117	USSR	20 JUL	113.9	74.0	1494	1319									
6118	USSR	20 JUL	114.3	74.0	1494	1350									
6119	USSR	20 JUL	114.6	74.0	1493	1380									
6120	USSR	20 JUL	114.9	74.0	1494	1409									
6121	USSR	20 JUL	115.3	74.0	1494	1440									
6122	USSR	20 JUL	115.6	74.0	1496	1471									
6123	USSR	20 JUL	116.0	74.0	1508	1492									
6124	USSR	20 JUL	116.4	74.0	1543	1492									
6125	USSR	20 JUL	117.0	74.0	1599	1490									
6126	US	23 JUL	103.0	99.3	908	836									
	US	23 JUL	SEE NOTE		17*										
6148	USSR	14 AUG	104.2	83.0	965	950		17*							

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1972 LAUNCHES (CONT.)										
1972 062B		6149	USSR	16 AUG	104.1	83.0	960	948		
1972 062C		6277	USSR	16 AUG	104.1	82.9	956	945		
1972 062D		7560	USSR	16 AUG	102.7	83.0	941	835		
1972 065A	COPERNICUS	6153	US	21 AUG	99.2	35.0	726	715		
1972 065B		6155	US	21 AUG	98.8	35.0	735	666		
1972 065A	COSMOS 516	6154	USSR	21 AUG	104.5	64.8	1016	928		
1972 069A	TRIAD OI-1X	6173	US	2 SEP	99.9	90.0	795	713		
1972 0693		6180	US	2 SEP	99.5	90.0	771	695		
1972 069C		6250	US	2 SEP	98.0	89.7	700	625		
1972 072A	COSMOS 520	6192	USSR	19 SEP	715.2	58.0	36486	3740		
1972 072E		6302	USSR	19 SEP	706.7	67.8	36076	3728		
1972 073A	EXPLORER 47	6197	US	23 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1972 074A	COSMOS 521	6206	USSR	29 SEP	104.9	65.8	992	988		
1972 074B		6207	USSR	29 SEP	104.7	65.8	998	964		
1972 074C		6210	USSR	29 SEP	104.9	65.8	993	984		
1972 076A		6212	US	2 OCT	97.6	98.7	649	638		
1972 076B		6217	US	2 OCT	98.8	98.6	706	692		
1972 076C		6218	US	2 OCT	99.1	98.5	726	709		
1972 076D		6221	US	2 OCT	97.1	98.6	623	614		
1972 079C		6822	US	10 OCT	114.7	95.6	1463	1416		
1972 079D		6823	US	10 OCT	114.7	95.0	1483	1404		
1972 079E		6824	US	10 OCT	114.6	95.5	1443	1430		
1972 082A	NOAA 2	6235	US	15 OCT	114.9	101.9	1453	1446		
1972 082B	AMSAT-OSCAR 6	6236	US	15 OCT	114.9	101.9	1453	1446		
1972 082C		6237	US	15 OCT	109.2	102.8	1465	914		
1972 085A	METEOR	6256	USSR	26 OCT	102.3	81.2	881	852		
1972 085B		6257	USSR	26 OCT	102.4	81.3	914	831		
1972 087A	COSMOS 528	6262	USSR	1 NOV	114.1	74.0	1465	1364		
1972 087B	COSMOS 529	6264	USSR	1 NOV	114.5	74.0	1466	1399		
1972 087C	COSMOS 530	6265	USSR	1 NOV	113.7	74.0	1465	1331		
1972 087D	COSMOS 531	6266	USSR	1 NOV	114.7	74.0	1467	1418		
1972 087E	COSMOS 532	6267	USSR	1 NOV	113.4	74.0	1465	1297		
1972 087F	COSMOS 533	6268	USSR	1 NOV	113.6	74.0	1466	1314		
1972 087G	COSMOS 534	6269	USSR	1 NOV	113.9	74.0	1465	1347		
1972 087H	COSMOS 535	6270	USSR	1 NOV	114.3	74.0	1467	1381		
1972 087J		6271	USSR	1 NOV	116.6	74.0	1590	1465		
1972 089A		6275	US	9 NOV	101.2	98.7	842	787		
1972 089B		6276	US	9 NOV	101.4	98.8	854	799		
1972 090A	ANIK A1	6278	CANADA	10 NOV	1458.5	9.8	36555	35890		
1972 097A	NIMBUS 5	6305	US	11 DEC	107.1	99.8	1099	1086		
1972 097B		6306	US	11 DEC	111.7	99.6	1514	1098		
1972 101A		6317	US	20 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1972 101B		6318	US	20 DEC	CURRENT ELEMENTS NOT MAINTAINED					
1972 102A	COSMOS 539	6319	USSR	21 DEC	112.9	74.0	1377	1340		
1972 102B		6320	USSR	21 DEC	112.7	74.0	1370	1334		
1972 104A	COSMOS 540	6323	USSR	25 DEC	100.4	74.1	791	764		
1972 104B		6324	USSR	25 DEC	100.1	74.1	768	754		
1972 104C		6391	USSR	25 DEC	98.9	74.1	714	699		
1972 104D		6396	USSR	25 DEC	98.8	74.0	713	691		
1973 LAUNCHES										

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1973 005A	COSMOS 546	6350	USSR	26 JAN	95.8	50.7	569	541		
1973 009A	PROGNOZ 3	6364	USSR	15 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1973 013A		6380	US	6 MAR	CURRENT ELEMENTS NOT MAINTAINED					
1973 015A	MEFOR	6392	USSR	20 MAR	102.4	81.2	880	860		
1973 015B		6393	USSR	20 MAR	102.5	81.3	922	933		
1973 019A	PIONEER 11	6421	US	6 APR	SOLAR SYSTEM ESCAPE TRAJECTORY					
1973 0194		6425	US	6 APR	HELIOCENTRIC ORBIT					
1973 023A	ANIK A2	6437	CANADA	20 APR	1443.1	8.7	35958	35887		
1973 034A	MEFOR	6659	USSR	29 MAY	102.2	81.2	880	843		
1973 034B		6660	USSR	29 MAY	102.5	81.2	909	841		
1973 037A	COSMOS 564	6675	USSR	8 JUN	114.6	74.0	1479	1391		
1973 037B	COSMOS 565	6676	USSR	8 JUN	115.3	74.0	1487	1447		
1973 037C	COSMOS 566	6677	USSR	8 JUN	115.0	74.0	1480	1431		
1973 037D	COSMOS 567	6678	USSR	8 JUN	114.8	74.0	1481	1410		
1973 037E	COSMOS 568	6679	USSR	8 JUN	114.4	74.0	1479	1372		
1973 037F	COSMOS 569	6680	USSR	8 JUN	114.1	74.0	1478	1355		
1973 037G	COSMOS 570	6681	USSR	8 JUN	113.9	74.0	1478	1335		
1973 037H	COSMOS 571	6682	USSR	8 JUN	113.7	74.0	1476	1317		
1973 037J		6683	USSR	8 JUN	116.8	74.0	1594	1482		
1973 039A	EXPLORER 49	6686	US	10 JUN	SELENOCENTRIC ORBIT					
1973 039C		6689	US	10 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1973 039F		6725	US	10 JUN	SELENOCENTRIC ORBIT					
1973 039G		6726	US	10 JUN	SELENOCENTRIC ORBIT					
1973 040A		6691	US	12 JUN	ELEMENTS NOT AVAILABLE					
1973 040B		11940	US	12 JUN	ELEMENTS NOT AVAILABLE					
1973 042A	COSMOS 574	6707	USSR	20 JUN	105.0	82.9	1006	977		
1973 042B		6708	USSR	20 JUN	104.8	82.9	996	976		
1973 047A	MARS 4	6742	USSR	21 JUL	HELIOCENTRIC ORBIT					
1973 049A	MARS 5	6754	USSR	25 JUL	AREOCENTRIC ORBIT					
1973 052A	MARS 6	6768	USSR	5 AUG	AREOCENTRIC ORBIT					
1973 053A	MARS 7	6776	USSR	9 AUG	HELIOCENTRIC ORBIT					
1973 053D	CAPSULE	7224	USSR	9 AUG	HELIOCENTRIC ORBIT					
1973 054A		6787	US	17 AUG	100.9	98.8	821	781		
1973 054B		6788	US	17 AUG	101.1	98.9	831	790		
1973 055A		6791	US	21 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1973 058A	INTELSAT 4 F-7	6792	US	21 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1973 058B		6796	ITSJ	23 AUG	1452.4	8.9	36140	36069		
1973 058C		6797	US	23 AUG	652.4	27.8	36514	564		
1973 064A	COSMOS 585	6825	USSR	8 SEP	113.5	74.0	1402	1372		
1973 064B		6826	USSR	8 SEP	113.4	74.0	1403	1357		
1973 065A	COSMOS 586	6828	USSR	14 SEP	104.7	82.9	1001	959		
1973 065B		6829	USSR	14 SEP	104.6	82.9	991	957		
1973 069A	COSMOS 588	6845	USSR	2 OCT	115.3	74.0	1491	1445		
1973 069B	COSMOS 589	6846	USSR	2 OCT	114.9	74.0	1486	1412		
1973 069C	COSMOS 590	6847	USSR	2 OCT	115.1	74.0	1485	1431		
1973 069D	COSMOS 591	6848	USSR	2 OCT	114.1	74.0	1484	1344		
1973 069E	COSMOS 592	6849	USSR	2 OCT	113.9	74.0	1482	1328		
1973 069F	COSMOS 593	6850	USSR	2 OCT	114.3	74.0	1483	1362		
1973 069G	COSMOS 594	6851	USSR	2 OCT	114.5	74.0	1483	1379		
1973 069H	COSMOS 595	6852	USSR	2 OCT	114.7	74.0	1483	1397		

INTER- NATIONAL DESIGNATION		NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1973 LAUNCHES (CONT.)											
1973 069J			6853	USSR	2 OCT	117.1	74.0	1619	1483		
1973 078A	EXPLORER 50		6893	US	26 OCT	ELEMENTS NOT AVAILABLE					
1973 078C			6895	US	25 OCT	98.4	28.8	1031	330		
1973 078D			6896	US	26 OCT	CURRENT ELEMENTS NOT MAINTAINED					
1973 080A	COSMOS 604		6907	USSR	29 OCT	89.8	81.2	269	260		
1973 080B			6908	USSR	29 OCT	92.8	81.2	429	397		
1973 081A	NNSS 30200		6909	US	30 OCT	105.2	89.8	1125	885		
1973 081B			6910	US	30 OCT	105.3	89.8	1128	886		
1973 081C			15764	US	30 OCT	105.8	90.5	1170	891		
1973 084A	COSMOS 606		6916	USSR	2 NOV	718.2	68.6	37152	3224		
1973 084D			6939	USSR	2 NOV	706.5	67.8	36982	2814		
1973 085A	MARINER 10		6919	US	3 NOV	HELIOCENTRIC ORBIT					
1973 086A	NOAA 3		6920	US	6 NOV	116.1	102.1	1506	1501		
1973 086B	- 086HF			US	5 NOV	SEE NOTE		18*			18*
1973 088D			6938	US	10 NOV	114.5	96.9	1454	1412		
1973 088E			7559	US	10 NOV	114.6	96.8	1475	1401		
1973 098A	COSMOS 614		6965	USSR	4 DEC	100.3	74.1	788	752		
1973 098B			6966	USSR	4 DEC	100.1	74.1	779	745		
1973 098C			6967	USSR	4 DEC	98.6	74.1	701	680		
1973 098D			9569	USSR	4 DEC	99.5	74.1	749	723		
1973 100A			6973	US	13 DEC	1474.6	12.5	35676	36399		
1973 100B			6974	US	13 DEC	1436.2	12.2	35802	35777		
1973 100D			6976	US	13 DEC	1515.0	13.1	38521	36112		
1973 104A	COSMOS 617		6985	USSR	19 DEC	113.9	74.0	1481	1332		
1973 104B	COSMOS 618		6986	USSR	19 DEC	115.2	74.0	1485	1441		
1973 104C	COSMOS 619		6987	USSR	19 DEC	115.0	74.0	1486	1421		
1973 104D	COSMOS 620		6988	USSR	19 DEC	115.4	74.0	1491	1457		
1973 104E	COSMOS 621		6989	USSR	19 DEC	114.7	74.0	1483	1403		
1973 104F	COSMOS 622		6990	USSR	19 DEC	114.3	74.0	1482	1367		
1973 104G	COSMOS 623		6991	USSR	19 DEC	114.5	74.0	1483	1385		
1973 104H	COSMOS 624		6992	USSR	19 DEC	114.1	74.0	1482	1349		
1973 104J			6993	USSR	19 DEC	117.0	74.0	1619	1474		
1973 107A	OREOL 2		7003	USSR	26 DEC	103.9	74.0	1493	388		
1973 107B			7004	USSR	26 DEC	103.2	74.0	1443	379		
1973 109A	COSMOS 626		7005	USSR	27 DEC	103.9	65.4	990	900		
1973 109A	COSMOS 627		7008	USSR	29 DEC	104.9	83.0	1013	964		
1973 109B			7009	USSR	29 DEC	104.6	83.0	989	960		
1974 LAUNCHES											
1974 001A	COSMOS 628		7094	USSR	17 JAN	104.7	83.0	1007	951		
1974 001B			7095	USSR	17 JAN	104.5	83.0	997	944		
1974 011A	METEOR		7209	USSR	5 MAR	101.9	81.2	878	821		
1974 011B			7210	USSR	5 MAR	102.0	81.2	912	791		
1974 013A	UK-X4		7213	UK	9 MAR	100.4	97.8	870	679		
1974 013B			7228	US	9 MAR	100.4	97.8	966	690		
1974 015A			7218	US	16 MAR	100.9	99.1	947	759		
1974 015B			7219	US	16 MAR	101.2	99.0	864	766		
1974 017A	COSMOS 637		7229	USSR	26 MAR	1429.0	12.3	35405	35489		
1974 017F			11567	USSR	26 MAR	1425.7	12.3	35759	35407		

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INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH	ELEMENTS NOT AVAILABLE						
1974 LAUNCHES (CONT.)											
1974 0208		7244	US	10 APR	1441.7	8.1		35924	35868		
1974 022A	WESTAR 1	7250	US	13 APR	114.5	74.0		1479	1385		
1974 024A	COSMOS 641	7265	USSR	23 APR	113.7	74.0		1478	1316		
1974 024B	COSMOS 642	7266	USSR	23 APR	114.1	74.0		1479	1350		
1974 024C	COSMOS 643	7267	USSR	23 APR	113.9	74.0		1480	1332		
1974 024D	COSMOS 644	7268	USSR	23 APR	114.3	74.0		1480	1367		
1974 024E	COSMOS 645	7269	USSR	23 APR	114.7	74.0		1482	1402		
1974 024F	COSMOS 646	7270	USSR	23 APR	114.9	74.0		1481	1420		
1974 024G	COSMOS 647	7271	USSR	23 APR	115.1	74.0		1487	1435		
1974 024H	COSMOS 648	7272	USSR	23 APR	117.0	74.0		1606	1484		
1974 024J		7273	USSR	24 APR	102.3	81.2		884	851		
1974 025A	METEOR	7274	USSR	24 APR	102.4	81.2		915	830		
1974 025B		7275	USSR	26 APR	640.6	62.5		35735	739		
1974 026A	MOLNIYA 2-9	7276	USSR	26 APR	699.3	62.4		39033	404		
1974 026E		7373	USSR	29 APR	113.4	74.0		1399	1365		
1974 028A	COSMOS 650	7281	USSR	29 APR	113.2	74.0		1387	1360		
1974 028B		7284	USSR	29 APR	103.4	65.0		959	878		
1974 029A	COSMOS 651	7291	USSR	15 MAY	104.4	64.9		1007	924		
1974 032A	COSMOS 654	7297	USSR	17 MAY	1460.3	14.2		36307	36210		
1974 033A	SMS 1	7298	US	17 MAY	SELENOCENTRIC ORBIT						
1974 037A	LUNA 22	7315	USSR	29 MAY	1412.0	11.9		35441	35187		
1974 039A	ATS 6	7318	US	30 MAY	1430.6	12.1		35779	35576		
1974 039C		7324	US	30 MAY	104.7	83.0		1576	383		
1974 044A	COSMOS 660	7337	USSR	18 JUN	102.1	82.9		1334	383		
1974 044B		7338	USSR	18 JUN	104.7	83.0		999	960		
1974 048A	COSMOS 663	7349	USSR	27 JUN	104.5	82.9		986	959		
1974 048B		7350	USSR	29 JUN	682.6	62.5		38557	46		
1974 050C		7354	USSR	9 JUL	102.9	81.2		908	883		
1974 052A	METEOR	7363	USSR	9 JUL	102.5	81.2		907	845		
1974 052B		7364	USSR	9 JUL	468.7	125.1		13783	13436		
1974 054A		7369	US	14 JUL	CURRENT ELEMENTS NOT MAINTAINED						
1974 054C		8599	US	14 JUL	717.4	62.1		39488	845		
1974 056A	MOLNIYA 2-10	7376	USSR	23 JUL	731.9	61.6		40182	867		
1974 056D		7382	USSR	23 JUL	1435.4	12.7		35830	35715		
1974 060A	MOLNIYA 1-S	7392	USSR	29 JUL	1435.2	12.8		35856	35680		
1974 060F		20836	USSR	29 JUL	101.2	98.8		846	781		
1974 063A		7411	US	9 AUG	101.3	98.8		855	787		
1974 063B		7412	US	9 AUG	94.4	81.2		509	466		
1974 066B		7418	USSR	16 AUG	91.2	81.2		337	325		
1974 066C		8424	USSR	16 AUG	113.6	74.1		1421	1362		
1974 069A	COSMOS 675	7424	USSR	29 AUG	113.5	74.1		1420	1351		
1974 069B		7426	USSR	29 AUG	100.7	74.0		799	780		
1974 071A	COSMOS 676	7433	USSR	11 SEP	100.5	74.0		796	765		
1974 071B		7434	USSR	11 SEP	99.7	74.1		748	738		
1974 071C		8756	USSR	11 SEP	100.3	74.1		785	756		
1974 071D		8829	USSR	11 SEP	114.4	74.0		1464	1394		
1974 072A	COSMOS 677	7435	USSR	19 SEP	115.9	74.0		1530	1464		
1974 072B	COSMOS 678	7436	USSR	19 SEP	115.7	74.0		1508	1463		
1974 072C	COSMOS 679	7437	USSR	19 SEP	115.5	74.0		1490	1464		
1974 072D	COSMOS 680	7438	USSR	19 SEP							

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1974 LAUNCHES (CONT.)											
1974 072E	COSMOS 681	7439	USSR	19 SEP	115.3	74.0	1470	1463			
1974 072F	COSMOS 682	7440	USSR	19 SEP	115.0	74.0	1465	1450			
1974 072G	COSMOS 683	7441	USSR	19 SEP	114.8	74.0	1464	1431			
1974 072H	COSMOS 684	7442	USSR	19 SEP	114.6	74.0	1465	1413			
1974 072J		7443	USSR	19 SEP	117.7	74.0	1683	1472			
1974 075A	WESTAR 2	7466	US	10 OCT	1442.3	8.1	35932	35882			
1974 075C		7468	US	10 OCT	201.2	24.3	9787	202			
1974 079A	COSMOS 689	7476	USSR	18 OCT	104.9	82.9	1015	968			
1974 079B		7477	USSR	18 OCT	104.8	82.9	1011	958			
1974 083A	METEOR	7490	USSR	28 OCT	102.2	81.2	888	837			
1974 083B		7493	USSR	28 OCT	102.3	81.2	902	835			
1974 083C		15521	USSR	28 OCT	102.3	81.2	900	834			
1974 089A	NOAA 4	7529	US	15 NOV	114.9	101.8	1457	1442			
1974 089B	AMSAT-OSCAR 7	7530	US	15 NOV	114.8	101.8	1456	1438			
1974 089C	INTASAT	7531	SPAIN	15 NOV	114.8	101.8	1457	1439			
1974 089D	- 089FF		US	15 NOV	SEE NOTE	19*				19*	
1974 092E		7546	USSR	21 NOV	733.3	64.5	40785	330			
1974 093A	INTELSAT 4 F-8	7544	ITSD	21 NOV	1443.0	7.1	35957	35887			
1974 093B		7545	US	21 NOV	652.5	26.2	36474	611			
1974 094A	SKYNET 28	7547	UK	23 NOV	1434.7	10.9	35790	35726			
1974 097A	HELIOS 1	7567	FRG	10 DEC	HELIOCENTRIC ORBIT						
1974 097B		7568	US	10 DEC	CURRENT ELEMENTS NOT MAINTAINED						
1974 097C		7569	US	10 DEC	HELIOCENTRIC ORBIT						
1974 097D		7570	FRG	10 DEC	HELIOCENTRIC ORBIT						
1974 099A	METEOR	7574	USSR	17 DEC	102.1	81.2	870	845			
1974 099B		7575	USSR	17 DEC	102.1	81.2	895	821			
1974 101A	SYMPHONIE-A	7578	FR/FRG	19 DEC	1440.4	11.1	35919	35823			
1974 101G		9330	US	19 DEC	654.4	12.3	36805	375			
1974 102D		7586	USSR	21 DEC	439.5	62.0	25389	92			
1974 105A	COSMOS 700	7593	USSR	26 DEC	104.6	83.0	992	958			
1974 105B		7594	USSR	26 DEC	104.5	82.9	981	957			
1975 LAUNCHES											
1975 004A	LANDSAT 2	7615	US	22 JAN	103.1	98.8	911	899			
1975 004B - 004HR			US	22 JAN	SEE NOTE	20*				20*	
1975 007A	COSMOS 706	7625	USSR	30 JAN	718.8	67.7	34256	6149			
1975 007D		7629	USSR	30 JAN	716.9	67.7	34972	5338			
1975 010A	STARLETTE	7646	FRANCE	6 FEB	104.2	49.8	1107	806			
1975 010B		7647	FRANCE	6 FEB	104.4	49.8	1127	900			
1975 010C		7654	FRANCE	6 FEB	103.6	49.9	1066	796			
1975 010D		7655	FRANCE	6 FEB	103.7	49.8	1073	794			
1975 010E		7659	FRANCE	6 FEB	103.8	49.8	1086	794			
1975 011A	SMS 2	7648	US	6 FEB	1447.1	10.6	36072	35931			
1975 011F		20835	US	6 FEB	1460.7	12.2	36677	35857			
1975 012A	COSMOS 708	7663	USSR	12 FEB	113.5	69.2	1408	1366			
1975 012B		7665	USSR	12 FEB	113.3	69.2	1397	1362			
1975 016A	COSMOS 711	7678	USSR	28 FEB	115.4	74.0	1490	1459			
1975 016B	COSMOS 712	7679	USSR	28 FEB	114.9	74.0	1488	1409			
1975 016C	COSMOS 713	7680	USSR	28 FEB	114.6	74.0	1485	1393			

INTER-NATIONAL DESIGNATION			NAME		OBJECTS IN ORBIT				PERIOD				INCLI-NATION		APOGEE KM.		PERIGEE KM.		TRANSMITTING FREQ. (MHZ)		NOTES
CATALOG NUMBER	SOURCE	LAUNCH	MINUTES	NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES													
1975 LAUNCHES (CONT.)																					
1975 016D	COSMOS 714	28 FEB	115.2	74.0	1489	1442															
1975 016E	COSMOS 715	28 FEB	115.7	74.0	1502	1468															
1975 016F	COSMOS 716	28 FEB	115.9	74.0	1511	1477															
1975 016G	COSMOS 717	28 FEB	116.1	74.0	1534	1477															
1975 016H	COSMOS 718	28 FEB	115.0	74.0	1488	1426															
1975 016J		28 FEB	117.9	74.0	1718	1457															
1975 017A		10 MAR	CURRENT ELEMENTS NOT MAINTAINED																		
1975 017B		10 MAR	CURRENT ELEMENTS NOT MAINTAINED																		
1975 023A	METEOR	1 APR	102.3	81.2	883	853															
1975 023B		1 APR	102.4	81.2	909	835															
1975 024A	COSMOS 723	2 APR	103.6	64.7	975	886															
1975 025A	COSMOS 724	7 APR	103.0	65.6	940	855															
1975 027A	GEOS 3	9 APR	101.6	115.0	838	829															
1975 027B		9 APR	101.3	115.0	835	802															
1975 027C		9 APR	101.4	115.2	859	793															
1975 027E		9 APR	103.5	115.0	1017	833															
1975 028A	COSMOS 726	11 APR	104.5	83.0	989	950															
1975 028B		11 APR	104.4	83.0	978	950															
1975 029D		14 APR	726.6	62.3	40651	139															
1975 033A	ARIABAT	19 APR	90.6	50.6	306	297															
1975 034A	COSMOS 729	22 APR	104.9	83.0	1003	971															
1975 034B		22 APR	104.7	83.0	995	969															
1975 036A	MOLNIYA 1-29	29 APR	717.5	62.1	39775	565															
1975 036D		29 APR	732.5	62.8	40632	446															
1975 038A	ANIK A3	7 MAY	1439.1	7.4	35855	35835															
1975 038D		7 MAY	396.6	24.5	22749	259															
1975 042A	INTELSAT 4 F-1	22 MAY	1450.8	7.2	36129	36016															
1975 042B		22 MAY	653.1	25.4	36456	655															
1975 043A		24 MAY	ELEMENTS NOT AVAILABLE																		
1975 043B		24 MAY	ELEMENTS NOT AVAILABLE																		
1975 045A	COSMOS 732	28 MAY	114.6	74.0	1469	1401															
1975 045B	COSMOS 733	28 MAY	116.2	74.0	1551	1468															
1975 045C	COSMOS 734	28 MAY	115.0	74.0	1469	1441															
1975 045D	COSMOS 735	28 MAY	115.2	74.0	1471	1459															
1975 045E	COSMOS 736	28 MAY	115.5	74.0	1484	1467															
1975 045F	COSMOS 737	28 MAY	115.9	74.0	1527	1468															
1975 045G	COSMOS 738	28 MAY	115.7	74.0	1507	1466															
1975 045H	COSMOS 739	28 MAY	114.8	74.0	1470	1420															
1975 045J		28 MAY	117.9	74.0	1693	1483															
1975 049B	SRET 2	5 JUN	737.8	62.8	40825	513															
1975 050A	VENERA 9	8 JUN	HELIOCENTRIC ORBIT																		
1975 051C	SSU 1	8 JUN	113.5	95.1	1392	1383															
1975 051D		8 JUN	113.2	95.0	1402	1342															
1975 051E		8 JUN	113.9	95.2	1424	1382															
1975 052A	NIMBUS 6	12 JUN	107.4	99.7	1110	1099															
1975 052B		12 JUN	111.7	99.8	1549	1056															
1975 052E	- 052Jp	12 JUN	SEE NOTE 56*																		
1975 052U		12 JUN	110.4	99.8	1397	1089															
1975 052E		12 JUN	109.0	99.7	1271	1085															
1975 052F		12 JUN	115.2	99.4	1839	1089															

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INTER-NATIONAL DESIGNATION			OBJECTS IN ORBIT			PERIOD			INCL- NATION			APOGEE KM.			PERIGEE KM.			TRANSMITTING FREQ. (MHZ)			NOTES		
NAME			LAUNCH			MINUTES			NATION			KM.			KM.								
CATALOG NUMBER			SOURCE			PERIOD			NATION			APOGEE KM.			PERIGEE KM.			TRANSMITTING FREQ. (MHZ)			NOTES		
1975 LAUNCHES (CONT.)																							
1975 0526			US	12 JUN		110.8			99.6			1466			1061								
1975 052H			US	12 JUN		106.4			99.4			1093			1025								
1975 052J			US	12 JUN		107.7			99.7			1146			1092								
1975 052K			US	12 JUN		103.8			99.0			1089			790								
1975 052L			US	12 JUN		106.6			99.4			1096			1045								
1975 052M			US	12 JUN		107.9			99.7			1162			1092								
1975 052N			US	12 JUN		109.3			99.7			1296			1092								
1975 054A		VENERA 10	USSR	14 JUN		HELIOCENTRIC ORBIT																	
1975 055A			US	18 JUN		CURRENT ELEMENTS NOT MAINTAINED																	
1975 055B			US	18 JUN		CURRENT ELEMENTS NOT MAINTAINED																	
1975 0568			USSR	20 JUN		94.6			81.2			518			480								
1975 063A		MOLNIYA 2-13	USSR	8 JUL		718.6			62.3			39839			557								
1975 063D			USSR	8 JUL		732.6			62.8			40638			446								
1975 064A		METEOR 2	USSR	11 JUL		102.2			81.3			879			844								
1975 064B			USSR	11 JUL		102.4			81.3			910			830								
1975 064C			USSR	11 JUL		102.2			81.3			874			854								
1975 064D			USSR	11 JUL		102.1			81.3			883			832								
1975 072A		COS-B	ESA	9 AUG		2203.9			90.3			99002			442								
1975 072B			US	9 AUG		121.4			89.2			3172			317								
1975 074A		COSMOS 755	USSR	14 AUG		104.8			82.9			1005			965								
1975 074B			USSR	14 AUG		104.7			82.9			995			962								
1975 075A		VIKING ORBITER 1	US	20 AUG		AREOCENTRIC ORBIT																	
1975 075B			US	20 AUG		HELIOCENTRIC ORBIT																	
1975 076A		COSMOS 756	USSR	22 AUG		93.0			81.2			428			418								
1975 076B			USSR	22 AUG		95.1			81.2			554			496								
1975 077A		SYMPHONIE-B	FR/FRG	27 AUG		1440.6			11.4			35885			35864								
1975 077B			US	27 AUG		103.2			25.3			1420			399								
1975 077C			US	27 AUG		639.2			13.1			36053			352								
1975 081A		MOLNIYA 2-14	USSR	9 SEP		717.3			61.9			39712			616								
1975 081D			USSR	9 SEP		732.7			62.6			40694			392								
1975 082A		KIKU	JAPAN	9 SEP		106.0			47.0			1103			976								
1975 082B			JAPAN	9 SEP		105.9			47.0			1100			974								
1975 083A		VIKING ORBITER 2	US	9 SEP		AREOCENTRIC ORBIT																	
1975 083B			US	9 SEP		HELIOCENTRIC ORBIT																	
1975 086A		COSMOS 761	USSR	17 SEP		114.6			74.0			1479			1398								
1975 086B		COSMOS 762	USSR	17 SEP		115.1			74.0			1482			1435								
1975 086C		COSMOS 763	USSR	17 SEP		115.8			74.0			1507			1472								
1975 086D		COSMOS 764	USSR	17 SEP		116.0			74.0			1523			1477								
1975 086E		COSMOS 765	USSR	17 SEP		116.3			74.0			1548			1476								
1975 086F		COSMOS 766	USSR	17 SEP		114.9			74.0			1482			1416								
1975 086G		COSMOS 767	USSR	17 SEP		115.3			74.0			1485			1453								
1975 086H		COSMOS 768	USSR	17 SEP		115.5			74.0			1489			1469								
1975 086J			USSR	17 SEP		117.8			74.0			1681			1480								
1975 087A		METEOR	USSR	18 SEP		102.0			81.3			911			799								
1975 087B			USSR	18 SEP		102.3			81.3			910			820								
1975 089A		COSMOS 770	USSR	24 SEP		109.1			83.0			1205			1162								
1975 089B			USSR	24 SEP		108.9			83.0			1195			1160								
1975 091A		INTELSAT 4A F-1	ITSO	26 SEP		1441.1			7.3			35915			35853								
1975 091B			US	26 SEP		652.4			21.9			36546			533								
1975 094A		COSMOS 773	USSR	30 SEP		100.5			74.1			790			774								

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1975 LAUNCHES (CONT.)														
1975 0948		8344	USSR	30 SEP	100.3	74.1	789	755						
1975 094C		8346	USSR	30 SEP	98.5	74.0	695	677						
1975 094D		14865	USSR	30 SEP	100.0	74.0	762	753						
1975 097A	COSMOS 775	8357	USSR	8 OCT	1436.2	12.4	35839	35736						
1975 097E		8415	USSR	8 OCT	CURRENT ELEMENTS NOT MAINTAINED									
1975 097F		11676	USSR	8 OCT	1438.8	12.3	35922	35755						
1975 100A	GOES 1	8366	US	16 OCT	1436.8	11.0	35830	35770						
1975 100C		8368	US	16 OCT	150.2	23.4	5712	252						
1975 100F		20962	US	16 OCT	1412.7	11.7	36516	34139						
1975 103A	COSMOS 778	8419	USSR	4 NOV	104.8	83.0	999	966						
1975 103B		8421	USSR	4 NOV	104.6	83.0	993	959						
1975 105A	MOLNIYA 3-3	8425	USSR	14 NOV	717.4	62.1	39737	596						
1975 105D		8462	USSR	14 NOV	733.4	62.7	40686	434						
1975 112A	COSMOS 783	8458	USSR	28 NOV	100.6	74.1	799	779						
1975 112B		8459	USSR	28 NOV	100.4	74.1	792	767						
1975 112C		8757	USSR	28 NOV	99.5	74.0	735	729						
1975 112D		14801	USSR	28 NOV	100.3	74.1	779	767						
1975 112E		18500	USSR	28 NOV	100.5	74.1	792	770						
1975 116A	COSMOS 785	8473	USSR	12 DEC	104.2	65.1	1021	891						
1975 117A	RCA SATCOM I	8476	US	13 DEC	1445.9	7.4	36085	35868						
1975 118A		8482	US	14 DEC	ELEMENTS NOT AVAILABLE									
1975 118C		8516	US	14 DEC	ELEMENTS NOT AVAILABLE									
1975 118D		8517	US	14 DEC	CURRENT ELEMENTS NOT MAINTAINED									
1975 121A	MOLNIYA 2-15	8492	USSR	17 DEC	416.9	62.8	24113	103						
1975 122A	PROGN02 4	8510	USSR	22 DEC	CURRENT ELEMENTS NOT MAINTAINED									
1975 123A	RADUGA 1	8513	USSR	22 DEC	1435.8	12.1	35805	35756						
1975 123D		8546	USSR	22 DEC	380.9	46.3	21659	394						
1975 123E		8547	USSR	22 DEC	335.5	46.5	19054	178						
1975 123F		11568	USSR	22 DEC	1433.0	12.0	35799	35650						
1975 124A	METEOR	8519	USSR	25 DEC	102.1	81.2	877	841						
1975 124B		8520	USSR	25 DEC	102.3	81.3	902	828						
1976 LAUNCHES														
1976 003A	HELIOS 2	8582	FRG	15 JAN	HELIOCENTRIC ORBIT									
1976 003B		8583	US	15 JAN	HELIOCENTRIC ORBIT									
1976 003C		8584	US	15 JAN	HELIOCENTRIC ORBIT									
1976 004A	CTS	8585	CANADA	17 JAN	1435.7	11.5	35849	35709						
1976 005A	COSMOS 789	8591	USSR	20 JAN	104.9	83.0	1010	966						
1976 005B		8597	USSR	20 JAN	104.7	83.0	999	964						
1976 006A	MOLNIYA 1-32	8601	USSR	22 JAN	719.9	63.0	39949	508						
1976 006D		8701	USSR	22 JAN	695.2	62.6	38662	573						
1976 008A	COSMOS 791	8607	USSR	28 JAN	114.7	74.1	1485	1398						
1976 008B	COSMOS 792	8608	USSR	28 JAN	115.1	74.1	1488	1434						
1976 008C	COSMOS 793	8609	USSR	28 JAN	114.9	74.1	1488	1415						
1976 008D	COSMOS 794	8610	USSR	28 JAN	115.3	74.1	1491	1450						
1976 008E	COSMOS 795	8611	USSR	28 JAN	115.6	74.1	1496	1465						
1976 008F	COSMOS 796	8612	USSR	28 JAN	115.8	74.1	1513	1469						
1976 008G	COSMOS 797	8613	USSR	28 JAN	116.0	74.1	1527	1476						
1976 008H	COSMOS 798	8614	USSR	28 JAN	116.3	74.1	1552	1476						

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1976 LAUNCHES (CONT.)											
1976 008J		8615	USSR	28 JAN	117.9	74.0	1693		1480		
1976 010A	INTELSAT 4A F-2	8620	ITSO	29 JAN	1444.5	7.4	35970		35932		
1976 010B		8621	US	29 JAN	653.8	21.2	36576		572		
1976 011A	COSMOS 800	8645	USSR	3 FEB	105.0	83.0	1008		975		
1976 011B		8646	USSR	3 FEB	104.8	83.0	988		982		
1976 014A	COSMOS 803	8688	USSR	12 FEB	95.4	65.8	552		519		
1976 017A	MARISAT 1	8697	US	19 FEB	1436.1	9.6	35797		35778		
1976 017C		8702	US	19 FEB	161.0	24.4	6599		254		
1976 019A	UME	8709	JAPAN	29 FEB	105.0	69.7	1005		987		
1976 019B		8710	JAPAN	29 FEB	105.1	69.7	1009		989		
1976 022A	COSMOS 907	8744	USSR	12 MAR	105.0	92.9	1608		383		
1976 022B		8745	USSR	12 MAR	101.8	82.9	1323		368		
1976 023A	LES 8	8746	US	15 MAR	1436.0	18.6	35818		35750		
1976 023B	LES 9	8747	US	15 MAR	1442.2	18.5	36016		35796		
1976 023C	SOLRAD 11A	8748	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1976 023D	SOLRAD 11B	8749	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1976 023F		8751	US	15 MAR	1465.5	18.9	36979		35741		
1976 023G		8752	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1976 023H		8753	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1976 023J		8632	US	15 MAR	CURRENT ELEMENTS NOT MAINTAINED						
1976 023K		13753	US	15 MAR	1420.9	10.0	35494		35483		
1976 024A	COSMOS 808	8754	USSR	16 MAR	93.7	81.2	464		449		
1976 024H		8755	USSR	16 MAR	94.3	81.3	506		462		
1976 029A	RCA SATCOM II	8774	US	26 MAR	1460.1	6.9	36504		36005		
1976 032A	METEOR	8799	USSR	7 APR	102.1	81.3	880		830		
1976 032E		8800	USSR	7 APR	102.2	81.3	931		791		
1976 035A	NATO III-A	8808	NATO	22 APR	1437.1	9.4	35837		35776		
1976 038A		8818	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038B		8819	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038C	SSU-1	8835	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038D	SSU-2	8836	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038E		8839	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038F		8842	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038G		8843	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038H		8859	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038J		8884	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038K		9796	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 038L		9996	US	30 APR	ELEMENTS NOT AVAILABLE						
1976 039A	LAGEOS	8820	US	4 MAY	225.4	109.8	5945		5838		
1976 039C		8822	US	4 MAY	225.4	109.8	5942		5835		
1976 039D		14514	US	4 MAY	105.7	110.0	1779		276		
1976 041A	MOLNIYA 3-5	8833	USSR	12 MAY	664.3	62.0	37590		93		
1976 041D		8844	USSR	12 MAY	710.5	61.9	39885		111		
1976 042A	COMSTAR 1	8838	US	13 MAY	1442.5	7.3	35926		35397		
1976 042B		8840	US	13 MAY	648.3	21.0	36276		592		
1976 043A	METEOR	8845	USSR	15 MAY	102.1	81.3	884		927		
1976 043B		8846	USSR	15 MAY	102.3	81.2	904		826		
1976 047A	p 76-5	8860	US	22 MAY	105.4	99.6	1046		981		
1976 047B		8861	US	22 MAY	105.5	99.5	1047		984		
1976 047C		8867	US	22 MAY	106.3	99.2	1111		999		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1976 LAUNCHES (CONT.)										
1976 0470		8868	US	22 MAY	104.6	100.0	1013	935		
1976 050A		8871	US	2 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 050B		8872	US	2 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 051A	COSMOS 823	8873	USSR	2 JUN	104.9	83.0	1003	971		
1976 051B		8874	USSR	2 JUN	104.7	83.0	999	965		
1976 053A	MARISAT 2	8882	US	10 JUN	1436.1	8.7	35795	35781		
1976 053F		8910	US	10 JUN	477.0	25.5	27425	260		
1976 054A	COSMOS 825	8889	USSR	15 JUN	114.6	74.0	1484	1393		
1976 054B	COSMOS 826	8890	USSR	15 JUN	116.2	74.0	1543	1479		
1976 054C	COSMOS 827	8891	USSR	15 JUN	114.9	74.0	1487	1410		
1976 054D	COSMOS 828	8892	USSR	15 JUN	115.1	74.0	1487	1430		
1976 054E	COSMOS 829	8893	USSR	15 JUN	115.3	74.0	1489	1447		
1976 054F	COSMOS 830	8894	USSR	15 JUN	115.5	74.0	1491	1466		
1976 054G	COSMOS 831	8895	USSR	15 JUN	115.7	74.0	1505	1473		
1976 054H	COSMOS 832	8896	USSR	15 JUN	116.0	74.0	1518	1480		
1976 054J		8897	USSR	15 JUN	117.9	74.0	1685	1486		
1976 059A		8916	US	26 JUN	ELEMENTS NOT AVAILABLE					
1976 059C		8918	US	26 JUN	ELEMENTS NOT AVAILABLE					
1976 059D		8919	US	26 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1976 061A	COSMOS 836	8923	USSR	29 JUN	100.6	74.1	801	774		
1976 061B		8924	USSR	29 JUN	100.4	74.1	791	768		
1976 061C		9572	USSR	29 JUN	99.3	74.0	728	719		
1976 061D		14815	USSR	29 JUN	99.5	74.1	744	721		
1976 065C		9008	US	3 JUL	ELEMENTS NOT AVAILABLE					
1976 066A	PALAPA 1	9009	INDONESIA	8 JUL	1438.7	7.0	35861	35812		
1976 066C		9017	US	8 JUL	326.1	24.5	18399	230		
1976 067A	COSMOS 839	9011	USSR	8 JUL	115.6	65.9	2055	913		21*
1976 067B	- 0679Y		USSR	8 JUL	SEE NOTE 21*					
1976 069A	COSMOS 841	9022	USSR	15 JUL	100.5	74.0	791	769		
1976 069B		9023	USSR	15 JUL	100.3	74.0	796	757		
1976 069C		9704	USSR	15 JUL	99.5	74.1	739	726		
1976 069D		13499	USSR	15 JUL	100.4	74.1	795	761		
1976 070A	COSMOS 842	9025	USSR	21 JUL	104.8	83.0	1006	962		
1976 070B		9044	USSR	21 JUL	104.6	83.0	988	966		
1976 073A	COMSTAR 2	9047	US	22 JUL	1436.1	7.0	35790	35763		
1976 073B		9329	US	22 JUL	645.8	21.7	36141	601		
1976 077A	NOAA 5	9057	US	29 JUL	115.2	102.0	1519	1504		
1976 077B	- 077FR		US	29 JUL	SEE NOTE 22*					
1976 078A	COSMOS 846	9061	USSR	29 JUL	104.6	92.9	1008	945		
1976 078B		9062	USSR	29 JUL	104.5	82.9	991	947		
1976 080A		9270	US	6 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1976 080B		9271	US	6 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1976 085B		9390	USSR	27 AUG	91.5	81.1	364	331		
1976 091A	AWSP-F1	9415	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 091B		9419	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 091C		9420	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 091F		9494	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 091G		9518	US	11 SEP	ELEMENTS NOT AVAILABLE					
1976 092A	RADUGA 2	9416	USSR	11 SEP	1436.1	11.8	35886	35686		
1976 092F		17872	USSR	11 SEP	1436.9	11.7	35876	35726		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1976 LAUNCHES (CONT.)										
1976 098A	COSMOS 858	9443	USSR	29 SEP	100.6	74.0	795	775		23*
1976 098B		9444	USSR	29 SEP	100.4	74.0	787	767		
1976 098C		14816	USSR	29 SEP	100.4	74.0	790	759		
1976 098D		14817	USSR	29 SEP	99.5	74.1	747	718		
1976 098E		18504	USSR	29 SEP	99.8	74.1	762	734		
1976 101A	MARISAT 3	9478	US	14 OCT	1435.0	10.1	35790	35779		
1976 102A	METEOR	9481	USSR	15 OCT	102.2	81.3	888	936		
1976 102B		9482	USSR	15 OCT	102.3	81.3	913	825		
1976 103A	COSMOS 860	9486	USSR	17 OCT	104.3	64.7	1012	906		
1976 103F		19297	USSR	17 OCT	101.7	64.1	1451	227		
1976 104A	COSMOS 861	9494	USSR	21 OCT	104.2	64.9	997	919		
1976 105A	COSMOS 862	9495	USSR	22 OCT	719.0	66.2	39805	1561		
1976 105B - 105P			USSR	22 OCT	SEE NOTE	23*				
1976 107A	EKRAN	9503	USSR	26 OCT	1436.9	11.7	36101	35502		
1976 107F		11569	USSR	26 OCT	1419.3	11.6	35509	35403		
1976 108A	COSMOS 864	9509	USSR	29 OCT	104.7	82.9	1002	958		
1976 108B		9510	USSR	29 OCT	104.6	82.9	992	955		
1976 112A	PROGN02 5	9557	USSR	25 NOV	CURRENT ELEMENTS NOT MAINTAINED					
1976 118A	COSMOS 871	9588	USSR	7 DEC	114.6	74.0	1462	1416		
1976 118B	COSMOS 872	9589	USSR	7 DEC	114.4	74.0	1462	1395		
1976 118C	COSMOS 873	9590	USSR	7 DEC	115.5	74.0	1494	1461		
1976 118D	COSMOS 874	9591	USSR	7 DEC	115.7	74.0	1513	1462		
1976 118E	COSMOS 875	9592	USSR	7 DEC	114.8	74.0	1461	1435		
1976 118F	COSMOS 876	9593	USSR	7 DEC	116.0	74.0	1536	1462		
1976 118G	COSMOS 877	9594	USSR	7 DEC	115.0	74.0	1462	1452		
1976 118H	COSMOS 878	9595	USSR	7 DEC	115.3	74.0	1472	1462		
1976 118J		9598	USSR	7 DEC	117.6	74.0	1682	1463		
1976 120B - 120BC			USSR	9 DEC	SEE NOTE	24*				
1976 122A	COSMOS 883	9610	USSR	15 DEC	104.7	83.0	1006	951		
1976 122B		9613	USSR	15 DEC	104.6	83.0	996	950		
1976 126A	COSMOS 886	9634	USSR	27 DEC	114.7	65.8	2299	586		
1976 126B - 126CG			USSR	27 DEC	SEE NOTE	25*				
1976 128A	COSMOS 887	9637	USSR	28 DEC	104.6	82.9	1011	943		
1976 128B		9638	USSR	28 DEC	104.5	82.9	995	946		
1977 LAUNCHES										
1977 002A	METEOR 2-2	9661	USSR	6 JAN	102.7	81.3	892	378		24*
1977 002B		9662	USSR	6 JAN	102.8	81.3	931	852		
1977 002C		9663	USSR	6 JAN	102.7	81.3	990	861		
1977 002D		9664	USSR	6 JAN	102.7	81.3	893	881		
1977 004A	COSMOS 890	9737	USSR	20 JAN	105.0	83.0	1012	975		
1977 004B		9738	USSR	20 JAN	104.8	83.0	997	975		
1977 005A	NATO III-8	9785	NATO	28 JAN	1434.1	9.1	35794	35779		
1977 005B		9786	US	28 JAN	103.8	28.0	1255	618		
1977 005D		9809	US	28 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1977 005E		9810	US	28 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1977 005F		9811	US	28 JAN	CURRENT ELEMENTS NOT MAINTAINED					
1977 007A		9803	US	5 FEB	ELEMENTS NOT AVAILABLE					
1977 007C		9855	US	6 FEB	ELEMENTS NOT AVAILABLE					

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1977 LAUNCHES (CONT.)										
1977 0070		9856	US	6 FEB	ELEMENTS NOT AVAILABLE					
1977 010A	MOLNIYA 2-17	9829	USSR	11 FEB	717.6	63.2	39907	437		
1977 010E		9850	USSR	11 FEB	730.9	63.7	40232	768		
1977 012A	TANSEI 3	9841	JAPAN	19 FEB	134.1	65.8	3808	793		
1977 012C		9843	JAPAN	19 FEB	134.1	65.8	3804	792		
1977 012E		9981	JAPAN	19 FEB	133.3	65.1	3750	782		
1977 012F		9982	JAPAN	19 FEB	133.5	65.9	3767	783		
1977 012G		9983	JAPAN	19 FEB	134.1	65.6	3794	809		
1977 012H		12857	JAPAN	19 FEB	134.0	66.3	3785	804		
1977 012J		13133	JAPAN	19 FEB	133.0	65.8	3713	795		
1977 012L		19314	JAPAN	19 FEB	133.1	65.6	3953	563		
1977 013A	COSMOS 894	9846	USSR	21 FEB	104.8	82.9	1006	963		
1977 013B		9848	USSR	21 FEB	104.7	82.9	991	968		
1977 014A	KIKU 2	9852	JAPAN	23 FEB	1439.9	10.4	35874	35847		
1977 015A	COSMOS 895	9853	USSR	26 FEB	91.9	81.2	368	364		
1977 015B		9854	USSR	26 FEB	94.6	81.2	527	467		
1977 018A	PALAPA 2	9862	INDNSA	10 MAR	1439.2	6.0	35867	35828		
1977 021A	MOLNIYA 1-36	9880	USSR	24 MAR	717.1	63.0	39965	354		
1977 021D		9927	USSR	24 MAR	732.8	63.6	40461	630		
1977 024A	METEOR	9903	USSR	5 APR	102.3	81.3	886	846		
1977 024B		9904	USSR	5 APR	102.4	81.3	911	932		
1977 024C		9907	USSR	5 APR	102.7	82.9	905	862		
1977 027A	COSMOS 903	9911	USSR	11 APR	717.9	67.4	37646	2712		
1977 027D		9921	USSR	11 APR	723.9	67.7	39039	2617		
1977 027E		10946	USSR	11 APR	CURRENT ELEMENTS NOT MAINTAINED					
1977 029A	ESA-GEOS	9931	ESA	20 APR	734.1	26.2	38538	2620		
1977 032A	MOLNIYA 3-7	9941	USSR	28 APR	717.3	63.0	39960	372		
1977 034A		10000	US	12 MAY	1489.6	10.8	36898	36756		
1977 034B		10001	US	12 MAY	1509.1	10.4	37368	37037		
1977 034C		10002	US	12 MAY	1506.9	11.0	38440	35883		
1977 036A	COSMOS 909	10010	USSR	19 MAY	117.0	65.9	2112	980		
1977 036B		10011	USSR	19 MAY	116.9	65.9	2100	978		
1977 036C		10013	USSR	19 MAY	117.0	65.9	2110	981		
1977 038A		10016	US	23 MAY	ELEMENTS NOT AVAILABLE					
1977 038B		10017	US	23 MAY	ELEMENTS NOT AVAILABLE					
1977 038C		15422	US	23 MAY	ELEMENTS NOT AVAILABLE					
1977 039A	COSMOS 911	10019	USSR	25 MAY	104.7	82.9	998	962		
1977 039B		10020	USSR	25 MAY	104.5	82.9	996	947		
1977 041A	INTELSAT 4A F-4	10024	ITSO	26 MAY	1448.2	6.2	36072	35971		
1977 041B		10025	US	26 MAY	648.4	21.9	36278	594		
1977 044A	DMSP-F2	10033	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 044B		10034	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 044C		10037	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 044D		10085	US	5 JUN	ELEMENTS NOT AVAILABLE					
1977 047A	COSMOS 917	10059	USSR	16 JUN	716.8	67.6	34909	5396		
1977 047D		10089	USSR	16 JUN	722.4	67.4	35934	4646		
1977 049A	GOES 2	10061	US	16 JUN	1435.6	9.3	36680	34873		
1977 048B		10062	US	16 JUN	108.4	28.4	1725	575		
1977 048F		10409	US	16 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1977 048G		20799	US	16 JUN	1431.7	10.8	36589	34811		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1977 LAUNCHES (CONT.)											
1977 053A		10091	US	23 JUN	718.1	64.3	20310	20058			
1977 053b		10960	US	23 JUN	314.4	64.3	16927	946			
1977 054A	MOLNIYA 1-37	10092	USSR	24 JUN	714.2	62.9	39911	268			
1977 054D		10155	USSR	24 JUN	695.2	63.3	38881	353			
1977 055A	COSMOS 921	10095	USSR	24 JUN	97.2	75.8	655	590			
1977 055B		10096	USSR	24 JUN	97.2	75.8	660	590			
1977 057A	METEOR	10113	USSR	29 JUN	93.6	97.4	461	435			
1977 057S		10114	USSR	29 JUN	96.4	97.9	595	576			
1977 059A	COSMOS 923	10120	USSR	1 JUL	100.7	74.0	801	782			
1977 059D		10121	USSR	1 JUL	100.5	74.0	797	768			
1977 059C		14802	USSR	1 JUL	100.1	74.1	771	752			
1977 059D		14818	USSR	1 JUL	99.7	74.1	753	735			
1977 061A	COSMOS 925	10134	USSR	7 JUL	93.4	81.2	448	437			
1977 061B		10135	USSR	7 JUL	94.7	81.2	524	482			
1977 062A	COSMOS 926	10137	USSR	8 JUL	104.9	82.9	1016	966			
1977 062B		10138	USSR	8 JUL	104.8	82.9	1001	971			
1977 064A	COSMOS 928	10141	USSR	13 JUL	104.6	83.0	1003	948			
1977 064B		10142	USSR	13 JUL	104.5	83.0	999	939			
1977 065A	HIMAWARI	10143	JAPAN	14 JUL	1450.9	9.6	36154	35996			
1977 065B	- 65GC		US	14 JUL	SEE NOTE		26*				26*
1977 068A	COSMOS 931	10150	USSR	20 JUL	717.0	66.9	35507	4809			
1977 068D		10167	USSR	20 JUL	710.2	68.2	35235	4743			
1977 068E		12906	USSR	20 JUL	717.6	67.7	34579	5765			
1977 068F		12996	USSR	20 JUL	704.4	61.8	39095	1596			
1977 068G		14000	USSR	20 JUL	718.6	65.7	36856	3540			
1977 068J		19881	USSR	20 JUL	694.3	59.6	38792	395			
1977 071A	RADUGA 3	10159	USSR	23 JUL	1437.0	11.4	35846	35760			
1977 071F		11570	USSR	23 JUL	1473.4	11.7	35565	36460			
1977 076A	VOYAGER 2	10271	US	20 AUG	SOLAR SYSTEM ESCAPE TRAJECTORY						
1977 076B		10272	US	20 AUG	HELIOCENTRIC ORBIT						
1977 076C		10273	US	20 AUG	HELIOCENTRIC ORBIT						
1977 079A	COSMOS 939	10282	USSR	24 AUG	114.8	74.0	1459	1430			
1977 079B	COSMOS 940	10286	USSR	24 AUG	114.4	74.0	1460	1392			
1977 079C	COSMOS 941	10287	USSR	24 AUG	114.6	74.0	1460	1411			
1977 079D	COSMOS 942	10288	USSR	24 AUG	115.9	74.0	1530	1460			
1977 079E	COSMOS 943	10289	USSR	24 AUG	115.0	74.0	1459	1448			
1977 079F	COSMOS 944	10290	USSR	24 AUG	115.2	74.0	1468	1460			
1977 079G	COSMOS 945	10291	USSR	24 AUG	115.4	74.0	1488	1460			
1977 079H	COSMOS 946	10292	USSR	24 AUG	115.6	74.0	1508	1460			
1977 079J		10293	USSR	24 AUG	117.5	74.0	1675	1460			
1977 080A	SIRIO	10294	ITALY	25 AUG	1414.6	8.1	35745	34985			
1977 080B		10295	US	25 AUG	115.5	27.1	2082	875			
1977 082A	MOLNIYA 1-38	10315	USSR	30 AUG	682.1	62.7	37904	674			
1977 082E		10369	USSR	30 AUG	634.4	63.9	35919	238			
1977 084A	VOYAGER 1	10321	US	5 SEP	HELIOCENTRIC ORBIT						
1977 084B		10322	US	5 SEP	HELIOCENTRIC ORBIT						
1977 084C		10323	US	5 SEP	HELIOCENTRIC ORBIT						
1977 087A	COSMOS 951	10352	USSR	13 SEP	104.8	93.0	1010	958			
1977 087B		10355	USSR	13 SEP	104.7	93.0	1005	953			
1977 088A	COSMOS 952	10358	USSR	16 SEP	104.1	64.9	976	925			

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
		CATALOG NUMBER	SOURCE	LAUNCH								
1977 LAUNCHES (CONT.)												
1977 091A	COSMOS 955	10362	USSR	20 SEP		95.1	81.2	531	515			
1977 091B		10363	USSR	20 SEP		95.3	81.2	556	508			
1977 092A	EKRAN	10365	USSR	20 SEP		1436.9	11.3	35935	35670			
1977 092G		11571	USSR	20 SEP		1421.7	11.1	35566	35443			
1977 093A	PROGNOS 6	10370	USSR	22 SEP		ELEMENTS NOT AVAILABLE						
1977 102D		10425	US	22 OCT		CURRENT ELEMENTS NOT MAINTAINED						
1977 105A	MOLNIYA 3-8	10455	USSR	28 OCT		717.5	63.3	39455	884			
1977 105E		10485	USSR	28 OCT		731.5	63.6	39618	1412			
1977 106A	NNSS 30110	10457	US	28 OCT		106.8	89.7	1096	1061			
1977 106B		10462	US	28 OCT		106.8	39.7	1097	1063			
1977 106C		12858	US	28 OCT		106.9	89.5	1094	1068			
1977 107A	COSMOS 962	10459	USSR	28 OCT		104.7	83.0	1002	962			
1977 107B		10461	USSR	28 OCT		104.6	82.9	999	952			
1977 108A	METEOSAT 1	10489	ESA	23 NOV		1435.3	10.5	35857	35684			
1977 108B		10490	US	23 NOV		115.2	28.3	2441	490			
1977 109A	COSMOS 963	10491	USSR	24 NOV		109.2	82.9	1203	1176			
1977 109B		10492	USSR	24 NOV		109.1	82.9	1200	1169			
1977 112A		10502	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 112B		10504	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 112C		10528	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 112D		10529	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 112E		10544	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 112F		10594	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 112G		10595	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 112H		12659	US	8 DEC		ELEMENTS NOT AVAILABLE						
1977 114A		10508	US	11 DEC		CURRENT ELEMENTS NOT MAINTAINED						
1977 114B		10509	US	11 DEC		CURRENT ELEMENTS NOT MAINTAINED						
1977 116A	COSMOS 967	10512	USSR	13 DEC		104.7	65.8	1001	960			
1977 116B		10513	USSR	13 DEC		104.5	65.8	996	946			
1977 116C		10518	USSR	13 DEC		104.6	65.8	996	957			
1977 116D		10526	USSR	13 DEC		104.7	65.8	1001	963			
1977 117A	METEOR 2-3	10514	USSR	14 DEC		102.2	81.2	875	847			
1977 117B		10515	USSR	14 DEC		102.3	81.2	896	832			
1977 117C		14950	USSR	14 DEC		102.3	81.2	899	831			
1977 118A	SAKURA	10516	JAPAN	15 DEC		1455.8	9.0	35189	36154			
1977 118B		10517	US	15 DEC		109.4	28.7	1909	483			
1977 118C		10519	US	15 DEC		109.8	29.1	1892	542			
1977 119A	COSMOS 968	10520	USSR	16 DEC		100.4	74.0	792	765			
1977 119B		10521	USSR	16 DEC		100.2	74.0	785	751			
1977 119C		10524	USSR	16 DEC		100.0	74.0	769	743			
1977 119D		10525	USSR	16 DEC		100.0	74.0	773	744			
1977 119E		18512	USSR	16 DEC		99.8	74.0	755	743			
1977 121A	COSMOS 970	10531	USSR	21 DEC		105.9	65.9	1141	930			
1977 121B	- 121AY		USSR	21 DEC		SEE NOTE 27*						27*
1977 122A	COSMOS 971	10536	USSR	23 DEC		104.9	82.9	1004	971			
1977 122B		10537	USSR	23 DEC		104.7	82.9	994	966			
1977 123A	COSMOS 972	10539	USSR	27 DEC		103.7	75.8	1157	710			
1977 123B		10541	USSR	27 DEC		103.7	75.8	1154	712			

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OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1978 002A	INTELSAT 4A F-3	10557	ITSO	7 JAN	1441.3	5.7	35905	35870		
1978 002B		10722	US	17 JAN	650.2	21.8	36302	664		
1978 004A	COSMOS 975	10561	USSR	10 JAN	95.4	81.2	542	532		
1978 004B		10582	USSR	10 JAN	95.9	81.2	595	532		
1978 005A	COSMOS 976	10581	USSR	10 JAN	115.0	74.0	1462	1453		
1978 005B	COSMOS 977	10584	USSR	10 JAN	114.4	74.0	1462	1397		
1978 005C	COSMOS 978	10585	USSR	10 JAN	114.6	74.0	1462	1416		
1978 005D	COSMOS 979	10586	USSR	10 JAN	114.8	74.0	1462	1434		
1978 005E	COSMOS 980	10587	USSR	10 JAN	115.3	74.0	1474	1460		
1978 005F	COSMOS 981	10588	USSR	10 JAN	115.5	74.0	1494	1461		
1978 005G	COSMOS 982	10589	USSR	10 JAN	115.7	74.0	1514	1461		
1978 005H	COSMOS 983	10590	USSR	10 JAN	115.0	74.0	1535	1461		
1978 005J		10591	USSR	10 JAN	117.7	74.0	1691	1460		
1978 007A	COSMOS 985	10599	USSR	17 JAN	104.6	82.9	1015	935		
1978 007B		10600	USSR	17 JAN	104.5	82.9	1007	933		
1978 012A	IUE	10637	US	26 JAN	1435.8	33.1	41538	30024		
1978 012C		10723	US	26 JAN	557.9	29.6	31837	304		
1978 014A	KYOKKO	10664	JAPAN	4 FEB	134.0	65.4	3956	637		
1978 014C		12329	JAPAN	4 FEB	133.8	65.2	3936	634		
1978 014D		12330	JAPAN	4 FEB	134.0	65.4	3956	632		
1978 014E		12331	JAPAN	4 FEB	132.5	64.8	3825	637		
1978 014F		12406	JAPAN	4 FEB	133.1	65.9	3871	642		
1978 016A	FLISATCOM 1	10669	US	9 FEB	1436.2	9.7	35795	35781		
1978 016C		12908	US	9 FEB	202.6	26.5	9857	240		
1978 018A	UME 2	10674	JAPAN	16 FEB	107.2	69.4	1215	975		
1978 018B		10675	JAPAN	16 FEB	107.1	69.4	1210	975		
1978 018C		13132	JAPAN	16 FEB	107.9	69.2	1288	969		
1978 019A		10676	USSR	17 FEB	100.4	74.0	791	766		
1978 019B	COSMOS 990	10677	USSR	17 FEB	100.2	74.0	781	757		
1978 019C		14803	USSR	17 FEB	99.3	74.0	731	721		
1978 019D		13500	USSR	17 FEB	100.0	74.0	769	748		
1978 019E		18501	USSR	17 FEB	100.1	74.1	773	751		
1978 020A		10684	US	22 FEB	719.0	64.0	20533	19832		
1978 020B		10801	US	22 FEB	268.4	63.8	13972	834		
1978 021A		10688	US	25 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1978 021B		10689	US	25 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1978 022A	COSMOS 991	10692	USSR	23 FEB	104.6	83.0	1003	950		
1978 022B		10693	USSR	24 FEB	104.5	83.0	988	957		
1978 024A	MOLNIYA 1-39	10696	USSR	2 MAR	711.0	61.7	39865	156		
1978 024D		10803	USSR	2 MAR	737.3	62.0	40875	537		
1978 026A	LANDSAT 3	10702	US	5 MAR	103.1	98.8	917	894		
1978 026B	AMSAT-OSCAR-8	10703	US	5 MAR	103.0	99.1	904	893		
1978 026C	026HT		US	5 MAR	SEE NOTE 29*					29*
1978 028A	COSMOS 994	10731	USSR	15 MAR	104.9	82.9	1005	970		
1978 028B		10732	USSR	15 MAR	104.7	82.9	993	967		
1978 029B		10734	US	16 MAR	ELEMENTS NOT AVAILABLE					
1978 031A	COSMOS 996	10744	USSR	28 MAR	104.6	82.9	1003	949		
1978 031B		10745	USSR	28 MAR	104.5	82.9	995	945		
1978 034A	COSMOS 1000	10776	USSR	31 MAR	104.7	82.9	1006	955		
1978 034B		10777	USSR	31 MAR	104.6	82.9	992	955		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
			SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION						
1978 LAUNCHES (CONT.)												
1978 035A	INTELSAT 4A F-6	10778	ITSO	31 MAR	1436.6	5-7	35831	35759				
1978 035B		10779	US	31 MAR	647.9	21.8	36247	602				
1978 038A		10787	US	7 APR	CURRENT ELEMENTS NOT MAINTAINED							
1978 038B		10788	US	7 APR	CURRENT ELEMENTS NOT MAINTAINED							
1978 039A	YURI	10792	JAPAN	7 APR	1436.8	10.2	35820	35779				
1978 039B		10793	US	7 APR	110.9	28.3	1967	572				
1978 039C		10794	US	7 APR	187.1	26.9	8692	222				
1978 042A		10820	US	1 MAY	100.8	98.7	802	788				
1978 042C		10854	US	1 MAY	94.8	98.2	510	505				
1978 044A	QTS-2	10855	ESA	11 MAY	1452.5	7.7	35123	36092				
1978 044B		10856	US	11 MAY	139.9	27.9	3528	1571				
1978 044C		10857	US	11 MAY	CURRENT ELEMENTS NOT MAINTAINED							
1978 045A	COSMOS 1005	10860	USSR	12 MAY	95.0	81.2	522	511				
1978 045B		10861	USSR	12 MAY	96.1	81.2	600	541				
1978 047A		10893	US	13 MAY	714.2	64.0	20609	19567				
1978 047B		10894	US	13 MAY	286.6	64.6	15094	945				
1978 051A	PIONEER VENUS ORBITER	10911	US	20 MAY	ELEMENTS NOT AVAILABLE							
HELIOCENTRIC ORBIT												
1978 051B		10912	US	20 MAY	104.7	82.9	1006	953				
1978 053A	COSMOS 1011	10917	USSR	23 MAY	104.6	82.9	997	951				
1978 053B		10918	USSR	23 MAY	717.9	63.2	39240	1121				
1978 055A	MOLNIYA 1-40	10925	USSR	2 JUN	732.5	63.4	39451	1626				
1978 055E		10949	USSR	7 JUN	116.3	74.0	1552	1476				
1978 056A	COSMOS 1013	10930	USSR	7 JUN	115.1	74.0	1529	1477				
1978 056B	COSMOS 1014	10931	USSR	7 JUN	115.8	74.0	1514	1472				
1978 056C	COSMOS 1015	10932	USSR	7 JUN	115.6	74.0	1495	1469				
1978 056D	COSMOS 1016	10933	USSR	7 JUN	115.4	74.0	1490	1455				
1978 056E	COSMOS 1017	10934	USSR	7 JUN	115.2	74.0	1486	1440				
1978 056F	COSMOS 1018	10935	USSR	7 JUN	115.0	74.0	1486	1421				
1978 056G	COSMOS 1019	10936	USSR	7 JUN	114.8	74.0	1483	1405				
1978 056H	COSMOS 1020	10937	USSR	7 JUN	117.8	74.0	1689	1478				
1978 056J		10938	USSR	7 JUN	CURRENT ELEMENTS NOT MAINTAINED							
1978 058A		10941	US	10 JUN	CURRENT ELEMENTS NOT MAINTAINED							
1978 058B		10942	US	10 JUN	CURRENT ELEMENTS NOT MAINTAINED							
1978 062A	GOES 3	10953	US	16 JUN	1435.9	8.3	35804	35759				
1978 062B		10954	US	16 JUN	107.4	28.4	1657	555				
1978 062D		20801	US	16 JUN	1451.2	10.5	40044	32118				
1978 063A	COSMOS 1023	10961	USSR	21 JUN	100.4	74.1	788	766				
1978 063B		10962	USSR	21 JUN	100.2	74.1	786	748				
1978 063C		14804	USSR	21 JUN	98.7	74.0	702	686				
1978 063D		13497	USSR	21 JUN	100.3	74.1	786	760				
1978 064A	SEASAT 1	10967	US	27 JUN	100.1	108.0	767	763				
1978 066A	COSMOS 1024	10970	USSR	28 JUN	717.9	67.4	34630	5729				
1978 066D		10998	USSR	28 JUN	720.2	67.5	34866	5609				
1978 067A	COSMOS 1025	10973	USSR	28 JUN	96.1	82.5	577	562				
1978 067B		10974	USSR	28 JUN	97.2	82.5	539	609				
1978 068A	COMSTAR 3	10975	US	29 JUN	1451.7	5.5	36170	36013				
1978 068B		10976	US	29 JUN	648.8	21.2	36262	630				
1978 071A	ESA GEOS 2	10981	ESA	14 JUL	1449.0	10.4	36049	36029				
1978 071C		10983	US	14 JUL	421.9	25.8	24265	247				

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1978 LAUNCHES (CONT.)										
1978 072A	MOLNIYA 1-41	10984	USSR	14 JUL	568.6	61.8	32607	106		
1978 072D		11073	USSR	14 JUL	680.3	61.8	38343	146		
1978 073A	RADUGA 4	10987	USSR	18 JUL	1436.3	10.8	35825	35754		
1978 073D		11074	USSR	18 JUL	565.6	46.5	31828	723		
1978 073E		11941	USSR	18 JUL	1475.9	11.2	36639	36484		
1978 074A	COSMOS 1027	10991	USSR	27 JUL	104.6	82.9	995	957		
1978 074B		10992	USSR	27 JUL	104.5	82.9	985	959		
1978 075A		10993	US	5 AUG	ELEMENTS NOT AVAILABLE					
1978 075B		10994	US	5 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1978 078C		11003	US	8 AUG	HELIOCENTRIC ORBIT					
1978 079A	ICE	11004	US	12 AUG	HELIOCENTRIC ORBIT					
1978 079C		11006	US	12 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1978 079D		13413	US	12 AUG	ELEMENTS NOT AVAILABLE					
1978 080A	MOLNIYA 1-42	11007	USSR	22 AUG	716.6	63.3	40003	290		
1978 080D		11075	USSR	22 AUG	732.4	63.8	40526	544		
1978 080D		11075	USSR	22 AUG	717.0	66.8	35921	4395		
1978 083A	COSMOS 1030	11015	USSR	6 SEP	723.6	66.0	36934	3708		
1978 083D		11076	USSR	6 SEP	723.6	66.0	36813	3227		
1978 083E		12907	USSR	6 SEP	711.4	64.0	36813	3227		
1978 083F		12919	USSR	6 SEP	719.5	64.0	37421	3020		
1978 083G		13959	USSR	6 SEP	721.7	63.7	37601	2948		
1978 084A	VENERA 11	11020	USSR	9 SEP	HELIOCENTRIC ORBIT					
1978 086A	VENERA 12	11025	USSR	14 SEP	382.5	31.1	21901	248		
1978 087A	JIKI-KEN	11027	JAPAN	16 SEP	336.9	31.2	19075	241		
1978 087B		11028	JAPAN	16 SEP	114.9	74.0	1479	1420		
1978 091A	COSMOS 1034	11042	USSR	4 OCT	114.6	74.0	1477	1400		
1978 091B	COSMOS 1035	11044	USSR	4 OCT	115.1	74.0	1478	1440		
1978 091C	COSMOS 1036	11045	USSR	4 OCT	115.3	74.0	1479	1460		
1978 091D	COSMOS 1037	11046	USSR	4 OCT	115.5	74.0	1485	1475		
1978 091E	COSMOS 1038	11047	USSR	4 OCT	116.3	74.0	1549	1477		
1978 091F	COSMOS 1039	11048	USSR	4 OCT	116.0	74.0	1525	1477		
1978 091G	COSMOS 1040	11049	USSR	4 OCT	115.8	74.0	1507	1475		
1978 091H	COSMOS 1041	11050	USSR	4 OCT	117.9	74.0	1697	1479		
1978 091J		11051	USSR	4 OCT	117.9	63.6	20319	20042		
1978 093A		11054	US	7 OCT	94.3	81.2	493	478		
1978 093A	COSMOS 1043	11055	USSR	10 OCT	95.3	81.2	564	498		
1978 094A		11056	USSR	10 OCT	717.6	63.1	39188	1156		
1978 094B		11057	USSR	13 OCT	734.3	63.1	39796	1368		
1978 095A	MOLNIYA 3-10	11079	USSR	13 OCT	101.7	98.8	845	831		
1978 095E		11060	US	13 OCT	100.2	98.8	771	767		
1978 096A	TIRIOS-N	11061	US	13 OCT	100.2	98.8	770	766		
1978 096B		11062	US	13 OCT	104.1	99.1	970	942		
1978 096C		11080	US	24 OCT	104.0	99.6	967	923		
1978 098A	NIMBUS 7	11081	US	24 OCT	120.3	82.5	1702	1683		
1978 098B	CAMEO	11084	USSR	26 OCT	120.3	82.5	1704	1684		
1978 100A	COSMOS 1045	11085	USSR	26 OCT	120.3	82.5	1702	1683		
1978 100B	RADIO 1	11085	USSR	26 OCT	120.3	82.5	1702	1683		
1978 100B	RADIO 2	11086	USSR	26 OCT	120.3	82.5	1702	1683		
1978 100C		11086	USSR	26 OCT	SEE NOTE 29*					
1978 100D	- 100AX	11111	USSR	26 OCT	100.5	74.0	799	769		
1978 105A	COSMOS 1048	11112	USSR	16 NOV	100.4	74.0	805	751		
1978 105B		11112	USSR	16 NOV	99.9	74.0	762	747		
1978 105C		11113	USSR	16 NOV	99.9	74.0	762	747		

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OBJECTS IN ORBIT													
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES			
1978 LAUNCHES (CONT.)													
1978 1050		11114	USSR	16 NOV	92.7	74.0	751	737					
1973 106A	NATO III-C	11115	NATO	19 NOV	1436.2	6.0	35800	35775					
1978 109A	COSMOS 1051	11128	USSR	5 DEC	114.6	74.0	1483	1393					
1978 109B	COSMOS 1052	11129	USSR	5 DEC	114.8	74.0	1485	1409					
1978 109C	COSMOS 1053	11130	USSR	5 DEC	115.0	74.0	1485	1428					
1978 109D	COSMOS 1054	11131	USSR	5 DEC	115.2	74.0	1487	1444					
1973 109E	COSMOS 1055	11132	USSR	5 DEC	115.5	74.0	1489	1462					
1978 109F	COSMOS 1056	11133	USSR	5 DEC	115.7	74.0	1502	1470					
1978 109G	COSMOS 1057	11134	USSR	5 DEC	115.9	74.0	1513	1478					
1976 109H	COSMOS 1058	11135	USSR	5 DEC	116.1	74.0	1535	1479					
1978 109J		11136	USSR	5 DEC	118.1	74.0	1698	1490					
1978 112A		11141	US	11 DEC	718.0	64.0	20328	20035					
1978 112B		11142	US	11 DEC	269.5	63.7	14336	551					
1978 113A		11144	US	14 DEC	1436.5	8.3	35818	35768					
1978 113B		11145	US	14 DEC	1436.2	8.2	35800	35776					
1978 113D		11147	US	14 DEC	1339.2	3.9	35596	32137					
1978 116A	ANIK B1	11153	CANADA	15 DEC	1442.8	5.0	35952	35983					
1978 117A	COSMOS 1063	11155	USSR	19 DEC	95.4	81.2	537	537					
1978 117B		11156	USSR	19 DEC	95.5	81.2	574	511					
1978 118A	GORIZONT 1	11158	USSR	19 DEC	1436.6	20.8	49474	22119					
1978 118C		11926	USSR	19 DEC	1417.4	20.7	48806	22033					
1978 121A	COSMOS 1066	11165	USSR	23 DEC	102.1	81.2	893	818					
1978 121B		11166	USSR	23 DEC	101.9	81.2	898	799					
1978 121C		19643	USSR	23 DEC	101.9	81.2	896	798					
1978 122A	COSMOS 1067	11168	USSR	26 DEC	109.0	93.0	1209	1154					
1978 122B		11170	USSR	26 DEC	108.9	83.0	1195	1155					
1979 LAUNCHES													
1979 003A	COSMOS 1072	11238	USSR	16 JAN	104.8	82.9	1013	955					
1979 003B		11239	USSR	16 JAN	104.7	82.9	1010	948					
1979 004A	MOLNIYA 3-11	11240	USSR	18 JAN	717.5	63.9	39324	1019					
1979 004D		11553	USSR	18 JAN	733.0	64.1	39588	1513					
1979 005A	METEOR 1-29	11251	USSR	25 JAN	96.3	97.7	606	555					
1979 005B		11252	USSR	25 JAN	95.0	97.4	529	512					
1979 007A	SCATHA	11256	US	30 JAN	1418.3	8.5	42597	28279					
1979 009A	AYAME 1	11261	JAPAN	6 FEB	1312.8	2.0	37404	29269					
1979 011A	COSMOS 1076	11266	USSR	12 FEB	95.5	82.5	552	535					
1979 011B		11267	USSR	12 FEB	97.1	82.5	636	606					
1979 012A	COSMOS 1077	11268	USSR	13 FEB	94.9	81.2	517	513					
1979 012B		11269	USSR	13 FEB	95.3	81.2	568	498					
1979 015A	EKRAN 3	11273	USSR	21 FEB	1436.1	10.5	35936	35635					
1979 015D		13900	USSR	21 FEB	1421.0	10.2	35525	35456					
1979 017A	SOLWIND	11278	US	24 FEB	92.2	97.9	389	374					
1979 020A	INTERCOSMOS 19	11285	USSR	27 FEB	96.9	74.0	748	462					
1979 020B		11286	USSR	27 FEB	97.0	74.0	766	460					
1979 021A	METEOR 2-4	11288	USSR	1 MAR	102.0	81.2	872	838					
1979 021B		11289	USSR	1 MAR	102.1	81.2	910	801					
1979 021C		11290	USSR	1 MAR	102.1	81.2	880	835					
1979 021D		14632	USSR	1 MAR	102.8	81.3	932	853					

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHz)	NOTES
1979 LAUNCHES (CONT.)										
1979 024A	COSMOS 1081	11296	USSR	15 MAR	114.5	74.0	1463	1402		
1979 024B	COSMOS 1082	11297	USSR	15 MAR	114.7	74.0	1463	1421		
1979 024C	COSMOS 1083	11298	USSR	15 MAR	114.9	74.0	1464	1440		
1979 024D	COSMOS 1084	11299	USSR	15 MAR	115.1	74.0	1462	1459		
1979 024E	COSMOS 1085	11300	USSR	15 MAR	115.6	74.0	1502	1463		
1979 024F	COSMOS 1086	11301	USSR	15 MAR	115.4	74.0	1480	1463		
1979 024G	COSMOS 1087	11302	USSR	15 MAR	115.8	74.0	1522	1463		
1979 024H	COSMOS 1088	11303	USSR	15 MAR	116.1	74.0	1545	1463		
1979 024J		11304	USSR	15 MAR	117.6	74.0	1687	1458		
1979 025B		11306	US	16 MAR	ELEMENTS NOT AVAILABLE					
1979 026A	COSMOS 1089	11308	USSR	21 MAR	104.7	83.0	996	965		
1979 026B		11309	USSR	21 MAR	104.6	83.0	989	961		
1979 028A	COSMOS 1091	11320	USSR	7 APR	104.8	82.9	1004	961		
1979 028B		11321	USSR	7 APR	104.6	82.9	990	964		
1979 030A	COSMOS 1092	11326	USSR	11 APR	104.7	82.9	1002	959		
1979 030B		11327	USSR	11 APR	104.6	82.9	995	956		
1979 031A	MOLNIYA 1-43	11328	USSR	12 APR	100.4	63.7	1460	99		
1979 031D		11551	USSR	12 APR	620.8	64.1	35321	132		
1979 032A	COSMOS 1093	11331	USSR	14 APR	94.9	81.2	518	503		
1979 032B		11332	USSR	14 APR	95.9	81.2	597	523		
1979 035A	RADUGA 5	11343	USSR	25 APR	1436.5	10.4	35817	35771		
1979 035E		17873	USSR	25 APR	1437.2	10.4	35936	35680		
1979 038A	FLTSATCOM 2	11353	US	4 MAY	1436.1	8.3	35807	35767		
1979 046A	COSMOS 1104	11378	USSR	31 MAY	104.7	82.9	1005	953		
1979 046B		11379	USSR	31 MAY	104.6	82.9	988	958		
1979 048A	MOLNIYA 3-12	11384	USSR	5 JUN	374.5	63.0	21498	168		
1979 050A		11389	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050B		11403	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050C		11408	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050D		11410	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 050G		11534	US	6 JUN	ELEMENTS NOT AVAILABLE					
1979 053A		11397	US	10 JUN	ELEMENTS NOT AVAILABLE					
1979 053C		11436	US	10 JUN	ELEMENTS NOT AVAILABLE					
1979 053D		20364	US	10 JUN	ELEMENTS NOT AVAILABLE					
1979 057A	NOAA 6	11416	US	27 JUN	100.8	98.6	602	787		
1979 057B		11419	US	27 JUN	99.2	98.3	722	716		
1979 057C		11634	US	27 JUN	99.2	98.3	722	716		
1979 058A	COSMOS 1109	11417	USSR	27 JUN	CURRENT ELEMENTS NOT MAINTAINED					
1979 058D		11555	USSR	27 JUN	721.7	67.4	38532	2013		
1979 058E		12833	USSR	27 JUN	715.1	67.2	38235	1985		
1979 058F		12834	USSR	27 JUN	719.1	67.8	34904	5513		
1979 058G		12909	USSR	27 JUN	719.6	68.2	39114	1329		
1979 058H		12995	USSR	27 JUN	698.9	66.3	38251	1169		
1979 058J		13960	USSR	27 JUN	720.5	67.3	37953	2534		
1979 060A	COSMOS 1110	11425	USSR	28 JUN	100.6	74.0	798	777		
1979 060B		11427	USSR	28 JUN	100.4	74.0	793	763		
1979 060C		14866	USSR	23 JUN	99.5	74.0	736	733		
1979 060D		15784	USSR	28 JUN	100.0	74.0	759	752		
1979 062A	GORIZONT 2	11440	USSR	5 JUL	1435.9	10.0	35792	35772		
1979 062D		14005	USSR	5 JUL	1474.4	10.3	36554	36510		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1979 LAUNCHES (CONT.)										
1979 067A	COSMOS 1116	11457	USSR	20 JUL	93.4	81.2	451	431		
1979 067B		11458	USSR	20 JUL	95.1	81.2	549	493		
1979 070A	MOLNIYA 1-44	11474	USSR	31 JUL	717.8	63.8	38780	1576		
1979 070D		11556	USSR	31 JUL	733.1	64.1	39011	2095		
1979 072A	WESTAR 3	11484	US	10 AUG	1440.6	3.6	35878	35871		
1979 077A	COSMOS 1124	11509	USSR	28 AUG	716.7	67.7	35122	5178		
1979 077D		11550	USSR	28 AUG	723.8	67.7	35596	5055		
1979 077E		12814	USSR	28 AUG	583.2	65.8	33201	287		
1979 077F		12815	USSR	28 AUG	708.7	64.3	36960	2947		
1979 077G		12816	USSR	28 AUG	686.5	63.6	36895	1904		
1979 077H		12817	USSR	28 AUG	720.6	63.3	37929	2564		
1979 078A	COSMOS 1125	11510	USSR	28 AUG	100.6	74.0	797	779		
1979 078B		11511	USSR	28 AUG	100.5	74.0	791	768		
1979 078C		14805	USSR	28 AUG	99.5	74.1	740	732		
1979 078D		14806	USSR	28 AUG	100.5	74.0	785	776		
1979 078E		18650	USSR	28 AUG	99.4	74.1	737	726		
1979 084A	COSMOS 1130	11538	USSR	25 SEP	114.6	74.0	1478	1395		
1979 084B	COSMOS 1131	11539	USSR	25 SEP	114.8	74.0	1480	1408		
1979 084C	COSMOS 1132	11540	USSR	25 SEP	114.9	74.0	1480	1423		
1979 084D	COSMOS 1133	11541	USSR	25 SEP	115.1	74.0	1481	1437		
1979 084E	COSMOS 1134	11542	USSR	25 SEP	115.3	74.0	1482	1451		
1979 084F	COSMOS 1135	11543	USSR	25 SEP	115.4	74.0	1490	1460		
1979 084G	COSMOS 1136	11544	USSR	25 SEP	115.6	74.0	1494	1470		
1979 084H	COSMOS 1137	11545	USSR	25 SEP	115.8	74.0	1512	1471		
1979 084J		11546	USSR	25 SEP	117.8	74.0	1682	1480		
1979 086A		11558	US	1 OCT	ELEMENTS NOT AVAILABLE					
1979 086C		11560	US	1 OCT	ELEMENTS NOT AVAILABLE					
1979 087A	EKRAN 4	11561	USSR	3 OCT	1436.1	10.1	35857	35716		
1979 087C		17939	USSR	3 OCT	1433.1	10.1	35848	35609		
1979 089A	COSMOS 1140	11573	USSR	11 OCT	100.4	74.1	788	766		
1979 089B		11574	USSR	11 OCT	100.2	74.1	778	758		
1979 089C		14807	USSR	11 OCT	99.5	74.1	740	725		
1979 089D		14345	USSR	11 OCT	100.0	74.0	769	747		
1979 089E		19048	USSR	11 OCT	100.1	74.0	778	749		
1979 090A	COSMOS 1141	11585	USSR	16 OCT	104.6	82.9	997	952		
1979 090B		11586	USSR	16 OCT	104.4	82.9	988	947		
1979 090C		11587	USSR	16 OCT	102.6	82.9	898	861		
1979 091A	MOLNIYA 1-45	11589	USSR	20 OCT	717.6	62.1	39697	646		
1979 091D		11602	USSR	20 OCT	732.7	62.2	40500	587		
1979 093A	COSMOS 1143	11600	USSR	26 OCT	95.6	81.2	555	539		
1979 093B		11601	USSR	26 OCT	96.0	81.2	593	536		
1979 095A	METEOR 2-5	11605	USSR	31 OCT	102.4	81.2	879	862		
1979 095B		11608	USSR	31 OCT	102.4	81.2	913	834		
1979 098A		11621	US	21 NOV	1436.0	7.8	35792	35777		
1979 098B		11622	US	21 NOV	1436.0	7.8	35793	35775		
1979 098C		11623	US	21 NOV	1510.8	9.1	38518	35954		
1979 099A	COSMOS 1145	11629	USSR	27 NOV	95.0	81.2	528	511		
1979 099B		11630	USSR	27 NOV	95.7	81.2	587	519		
1979 101A	RCA SATCOM III	11635	US	7 DEC	789.9	8.2	35563	8245		
1979 105A	GORIZONT 3	11648	USSR	28 DEC	1436.8	9.6	35809	35791		

INTER-NATIONAL DESIGNATION		NAME	OBJECTS IN ORBIT				CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES	
1979 LAUNCHES (CONT.)																
1979 105E	017R - 017L2						11684	USSR	28 DEC	1459.2	9.9	35310	36165		30*	
24 FEB																
1980 LAUNCHES																
1980 002A	MOLNIYA 1-46						11662	USSR	11 JAN	645.8	63.3	36605	135			
1980 002F							11670	USSR	11 JAN	731.9	63.9	40760	290			
1980 003A	COSMOS 1150						11667	USSR	14 JAN	104.8	83.0	1011	962			
1980 003B							11668	USSR	14 JAN	104.7	82.9	996	963			
1980 004A	FLTSATCOM 3						11669	US	18 JAN	1437.2	7.7	35895	35721			
1980 005A	COSMOS 1151						11671	USSR	23 JAN	96.5	82.5	599	577			
1980 005B							11672	USSR	23 JAN	97.2	82.5	638	609			
1980 007A	COSMOS 1153						11680	USSR	25 JAN	104.8	82.9	1015	957			
1980 007B							11681	USSR	25 JAN	104.7	82.9	1007	953			
1980 008A	COSMOS 1154						11682	USSR	30 JAN	95.8	81.2	561	555			
1980 008B							11683	USSR	30 JAN	96.1	81.2	608	538			
1980 011A							11690	US	9 FEB	718.0	64.5	20529	19836			
1980 011B							11705	US	9 FEB	289.5	63.7	15652	582			
1980 012A	COSMOS 1156						11691	USSR	11 FEB	114.5	74.0	1472	1396			
1980 012B	COSMOS 1157						11692	USSR	11 FEB	114.8	74.0	1474	1413			
1980 012C	COSMOS 1158						11693	USSR	11 FEB	115.0	74.0	1474	1432			
1980 012D	COSMOS 1159						11694	USSR	11 FEB	115.2	74.0	1476	1448			
1980 012E	COSMOS 1160						11695	USSR	11 FEB	115.4	74.0	1481	1463			
1980 012F	COSMOS 1161						11696	USSR	11 FEB	115.6	74.0	1501	1465			
1980 012G	COSMOS 1162						11697	USSR	11 FEB	115.8	74.0	1517	1469			
1980 012H	COSMOS 1163						11698	USSR	11 FEB	116.1	74.0	1541	1469			
1980 012J							11699	USSR	11 FEB	117.8	74.0	1693	1466			
1980 016A	RADUGA 6						11708	USSR	20 FEB	1437.1	9.8	35822	35789			
1980 016D							11728	USSR	20 FEB	1475.1	10.1	36610	36483			
1980 019A	AYAME 2						11715	JAPAN	22 FEB	1386.6	1.4	36839	32785			
1980 018C							11718	JAPAN	22 FEB	325.0	24.5	19285	273			
1980 019A							11720	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 019B							11721	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 019C							11731	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 019D							11732	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 019E							11733	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 019F							11734	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 019G							11745	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 019H							11746	US	3 MAR	ELEMENTS NOT AVAILABLE						
1980 022A	COSMOS 1168						11735	USSR	17 MAR	104.7	82.9	1008	955			
1980 022B							11736	USSR	17 MAR	104.6	82.9	1001	951			
1980 022C							12404	USSR	17 MAR	103.2	82.9	930	888			
1980 026A	COSMOS 1171						11750	USSR	3 APR	104.8	65.8	1001	969			
1980 026B							11751	USSR	3 APR	104.6	65.8	979	974			
1980 026C							11752	USSR	3 APR	104.8	65.8	1000	966			
1980 028A	COSMOS 1172						11758	USSR	12 APR	716.6	66.0	38174	2122			
1980 028E							11762	USSR	12 APR	722.0	66.3	38808	1755			
1980 030A	COSMOS 1174						11765	USSR	18 APR	103.2	66.1	1444	379			
1980 030B - 030AY								USSR	18 APR	SEE NOTE						31*
1980 032A							11783	US	26 APR	707.8	53.2	20436	19422			

OBJECTS IN ORBIT										NOTES
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	
1980 LAUNCHES (CONT.)										
1980 032B		11791	US	26 APR	218.7	63.2	11066	228		
1980 034A	COSMOS 1176	11788	USSR	29 APR	103.4	64.8	937	899		
1980 034D		11971	USSR	29 APR	103.1	64.8	918	889		
1980 039A	COSMOS 1181	11803	USSR	20 MAY	104.8	82.9	1002	968		
1980 039B		11804	USSR	20 MAY	104.7	83.0	992	964		
1980 044A	COSMOS 1184	11821	USSR	4 JUN	95.6	81.2	557	539		
1980 044B		11822	USSR	4 JUN	96.4	81.3	615	554		
1980 049A	GORIZONT 4	11841	USSR	14 JUN	1460.1	9.4	36260	36248		
1980 049F		11862	USSR	14 JUN	1470.4	9.6	36593	36315		
1980 050A	COSMOS 1198	11844	USSR	14 JUN	717.8	67.4	37557	2797		
1980 050B		11847	USSR	14 JUN	722.9	67.5	37729	2879		
1980 051A	METEOR 1-30	11848	USSR	18 JUN	91.6	97.7	360	345		
1980 051B		11849	USSR	18 JUN	96.2	97.6	599	556		
1980 052C		11852	US	18 JUN	ELEMENTS NOT AVAILABLE					
1980 056A	COSMOS 1190	11869	USSR	1 JUL	100.6	74.0	792	779		
1980 056B		11870	USSR	1 JUL	100.4	74.1	791	768		
1980 056C		14808	USSR	1 JUL	100.8	74.0	810	781		
1980 056D		14809	USSR	1 JUL	100.6	74.0	796	776		
1980 057A	COSMOS 1191	11871	USSR	2 JUL	716.4	67.7	34802	5485		
1980 057D		11888	USSR	2 JUL	722.0	67.5	35412	5151		
1980 057E		13999	USSR	2 JUL	708.6	65.6	37648	2254		
1980 059A	COSMOS 1192	11875	USSR	9 JUL	114.5	74.0	1472	1394		
1980 059B	COSMOS 1193	11876	USSR	9 JUL	114.7	74.0	1473	1411		
1980 058C	COSMOS 1194	11877	USSR	9 JUL	114.9	74.0	1473	1429		
1980 058D	COSMOS 1195	11878	USSR	9 JUL	115.1	74.0	1473	1447		
1980 058E	COSMOS 1196	11879	USSR	9 JUL	115.3	74.0	1473	1466		
1980 058F	COSMOS 1197	11880	USSR	9 JUL	115.5	74.0	1489	1469		
1980 058G	COSMOS 1198	11881	USSR	9 JUL	115.7	74.0	1506	1471		
1980 058H	COSMOS 1199	11882	USSR	9 JUL	116.0	74.0	1529	1470		
1980 059J		11883	USSR	9 JUL	117.6	74.0	1679	1468		
1980 060A	EKRAN 5	11890	USSR	14 JUL	1436.1	0.0	35834	35737		
1980 060F		14193	USSR	14 JUL	1417.2	9.5	35492	35340		
1980 063A	MOLNIYA 3-13	11896	USSR	18 JUL	717.8	63.2	38805	1547		
1980 063D		11909	USSR	18 JUL	732.5	63.4	39588	1498		
1980 069A	COSMOS 1206	11932	USSR	15 AUG	95.6	81.2	549	545		
1980 069B		11933	USSR	15 AUG	96.2	81.2	611	542		
1980 073A	METEOR 2-6	11962	USSR	9 SEP	102.2	81.2	888	832		
1980 073B		11963	USSR	9 SEP	102.2	81.2	910	815		
1980 074A	GOES 4	11964	US	9 SEP	1451.2	7.8	35216	35047		
1980 074C		11970	US	9 SEP	1767.3	0.1	49745	34341		
1980 081A	RADUGA 7	12003	USSR	5 OCT	1437.7	9.3	35836	35799		
1980 081F		12447	USSR	5 OCT	1440.7	9.5	35891	35861		
1980 085A	COSMOS 1217	12032	USSR	24 OCT	716.3	67.4	37414	2866		
1980 085D		12035	USSR	24 OCT	722.0	67.5	38226	2334		
1980 087A	FLTSATCOM 4	12046	US	31 OCT	1436.1	7.7	35805	35768		
1980 087B		12069	US	31 OCT	184.9	26.2	8481	263		
1980 089A	COSMOS 1220	12054	USSR	4 NOV	97.9	65.0	767	549		
1980 089B - 089C	SAS 1	12065	USSR	4 NOV	SEE NOTE	32*	35798	35777	32*	
1980 091A		12066	USSR	15 NOV	1436.1	3.5	35798	35777		
1980 092A	MOLNIYA 1-48		USSR	16 NOV	713.9	63.0	39474	587		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1980 LAUNCHES (CONT.)										
1980 0920		12070	USSR	16 NOV	733.5	63.5	40427	699		
1980 093A	COSMOS 1222	12071	USSR	21 NOV	96.1	81.2	571	567		
1980 093B		12072	USSR	21 NOV	96.2	81.2	614	537		
1980 095A	COSMOS 1223	12078	USSR	27 NOV	718.1	68.4	35576	4791		
1980 095E		12086	USSR	27 NOV	723.4	68.1	36264	4365		
1980 097A	COSMOS 1225	12087	USSR	5 DEC	104.8	32.9	1023	943		
1980 097B		12088	USSR	5 DEC	104.6	82.9	1011	938		
1980 098A	INTELSAT 5 F-2	12089	ITSO	6 DEC	1436.2	2.9	35805	35770		
1980 098B		12445	US	6 DEC	228.4	23.6	11634	367		
1980 099A	COSMOS 1226	12091	USSR	10 DEC	104.8	82.9	1007	959		
1980 099B		12092	USSR	10 DEC	104.6	82.9	997	954		
1980 100A		12093	US	13 DEC	ELEMENTS NOT AVAILABLE					
1980 100B		12094	US	13 DEC	ELEMENTS NOT AVAILABLE					
1980 102A	COSMOS 1228	12107	USSR	23 DEC	114.4	74.0	1462	1392		
1980 102B	COSMOS 1229	12108	USSR	23 DEC	114.6	74.0	1462	1413		
1980 102C	COSMOS 1230	12109	USSR	23 DEC	114.4	74.0	1462	1398		
1980 102D	COSMOS 1231	12110	USSR	23 DEC	114.5	74.0	1461	1404		
1980 102E	COSMOS 1232	12111	USSR	23 DEC	114.6	74.0	1462	1411		
1980 102F	COSMOS 1233	12112	USSR	23 DEC	114.7	74.0	1462	1417		
1980 102G	COSMOS 1234	12113	USSR	23 DEC	114.6	74.0	1461	1408		
1980 102H	COSMOS 1235	12114	USSR	23 DEC	114.6	74.0	1462	1411		
1980 102J		12115	USSR	23 DEC	114.9	74.0	1467	1435		
1980 103A	PROGN02 8	12116	USSR	25 DEC	5687.8	65.8	197364	978		
1980 104A	EKRAN 6	12120	USSR	26 DEC	1435.7	9.3	35798	35759		
1980 104E		12471	USSR	26 DEC	1421.0	9.2	35652	35328		
1981 LAUNCHES										
1981 002A	MOLNIYA 3-14	12133	USSR	9 JAN	717.8	64.0	38816	1540		
1981 002B		12134	USSR	9 JAN	732.2	64.2	39073	1989		
1981 003A	COSMOS 1238	12138	USSR	16 JAN	106.6	83.0	1735	397		
1981 003B		12139	USSR	16 JAN	105.2	83.0	1615	392		
1981 006A	COSMOS 1241	12149	USSR	21 JAN	104.9	65.8	1001	980		
1981 006B		12150	USSR	21 JAN	104.6	65.8	1008	945		
1981 006C		12151	USSR	21 JAN	104.9	65.8	996	979		
1981 008A	COSMOS 1242	12154	USSR	27 JAN	96.4	81.2	597	575		
1981 008B		12155	USSR	27 JAN	96.5	81.2	637	546		
1981 009A	MOLNIYA 1-49	12156	USSR	30 JAN	718.3	63.9	38135	2245		
1981 009D		12159	USSR	30 JAN	731.6	64.1	38644	2390		
1981 012A	KIKU 3	12295	JAPAN	11 FEB	399.5	28.3	22924	244		
1981 012C		12787	JAPAN	11 FEB	523.0	28.1	30029	220		
1981 013A	COSMOS 1244	12297	USSR	12 FEB	104.7	83.0	1004	959		
1981 013B		12298	USSR	12 FEB	104.6	82.9	998	954		
1981 016A	COSMOS 1247	12303	USSR	19 FEB	711.1	67.5	35314	4710		
1981 016E		12311	USSR	19 FEB	703.5	67.3	34947	4700		
1981 016F		12984	USSR	19 FEB	710.5	67.5	35256	4739		
1981 016G		12985	USSR	19 FEB	710.1	65.4	37292	2582		
1981 016H		12992	USSR	19 FEB	706.6	65.8	33596	1106		
1981 018A	COMSTAR 4	12309	US	21 FEB	1436.1	5.5	35739	35784		
1981 018B		12363	US	21 FEB	649.8	20.7	36299	643		

OBJECTS IN ORBIT												
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES		
1981 LAUNCHES (CONT.)												
1981 021A	COSMOS 1249	12319	USSR	5 MAR	103.9	65.0	972	909				
1981 021C		12551	USSR	5 MAR	103.5	65.0	959	993				
1981 022A	COSMOS 1250	12320	USSR	6 MAR	114.4	74.0	1469	1387				
1981 022B	COSMOS 1251	12321	USSR	6 MAR	114.6	74.0	1471	1400				
1981 022C	COSMOS 1252	12322	USSR	6 MAR	114.7	74.0	1470	1415				
1981 022D	COSMOS 1253	12323	USSR	6 MAR	115.6	74.0	1494	1466				
1981 022E	COSMOS 1254	12324	USSR	6 MAR	114.9	74.0	1471	1429				
1981 022F	COSMOS 1255	12325	USSR	6 MAR	115.0	74.0	1470	1443				
1981 022G	COSMOS 1256	12326	USSR	6 MAR	115.2	74.0	1474	1454				
1981 022H	COSMOS 1257	12327	USSR	6 MAR	115.4	74.0	1477	1466				
1981 022J		12328	USSR	6 MAR	117.6	74.0	1693	1455				
1981 025A		12339	US	16 MAR	ELEMENTS NOT AVAILABLE							
1981 025C		12371	US	16 MAR	ELEMENTS NOT AVAILABLE							
1981 027A	RADUGA 8	12351	USSR	18 MAR	1434.2	9.3	36098	35400				
1981 027F		14194	USSR	18 MAR	1474.5	9.6	36617	36451				
1981 028B	- 0288W		USSR	20 MAR	SEE NOTE		33*			33*		
1981 030A	MOLNIYA 3-15	12368	USSR	24 MAR	717.1	64.2	40026	294				
1981 030D		12383	USSR	24 MAR	732.6	64.6	40609	473				
1981 031A	COSMOS 1261	12376	USSR	31 MAR	716.6	67.8	35918	4377				
1981 031D		12384	USSR	31 MAR	707.5	67.7	35266	4580				
1981 031E		12892	USSR	31 MAR	719.2	68.1	35829	4595				
1981 031F		12893	USSR	31 MAR	716.1	64.2	37401	2868				
1981 031G		12894	USSR	31 MAR	718.4	65.3	37210	3174				
1981 033A	COSMOS 1263	12388	USSR	9 APR	106.3	83.0	1722	387				
1981 033B		12389	USSR	9 APR	104.3	83.0	1548	375				
1981 036E		12427	USSR	16 APR	102.5	99.0	994	756				
1981 037A	COSMOS 1266	12409	USSR	21 APR	103.6	64.8	964	889				
1981 037D		12435	USSR	21 APR	103.4	64.8	942	891				
1981 038A		12418	US	24 APR	ELEMENTS NOT AVAILABLE							
1981 038B		12446	US	24 APR	ELEMENTS NOT AVAILABLE							
1981 041A	COSMOS 1269	12442	USSR	7 MAY	100.7	74.1	798	783				
1981 041B		12443	USSR	7 MAY	100.6	74.1	789	781				
1981 041C		13498	USSR	7 MAY	100.2	74.0	778	758				
1981 041D		14346	USSR	7 MAY	99.8	74.0	757	738				
1981 043A	METEOR 2-7	12456	USSR	14 MAY	102.2	81.3	889	835				
1981 043B		12457	USSR	14 MAY	102.4	81.3	917	824				
1981 043C		15769	USSR	14 MAY	102.4	81.3	917	824				
1981 044A	NNSS 30480	12458	US	15 MAY	ELEMENTS NOT AVAILABLE							
1981 046A	COSMOS 1271	12464	USSR	19 MAY	96.4	81.2	592	579				
1981 046B		12465	USSR	19 MAY	96.8	81.2	641	566				
1981 049A	GOES 5	12472	US	22 MAY	1435.1	4.8	35771	35765				
1981 050A	INTELSAT 5 F-1	12474	ITSO	23 MAY	1436.1	3.4	35804	35771				
1981 050B		12497	US	23 MAY	221.7	24.0	11227	283				
1981 053A	COSMOS 1275	12504	USSR	4 JUN	104.7	83.0	1004	954				
1981 053B	- 053MT		USSR	4 JUN	SEE NOTE		34*			34*		
1981 054A	MOLNIYA 3-16	12512	USSR	9 JUN	717.7	64.0	39254	1093				
1981 054E		12519	USSR	9 JUN	733.6	64.3	39601	1530				
1981 057A	METEOSAT 2	12544	ESA	19 JUN	1458.0	5.1	37107	35322				
1981 057B	APPLE	12545	INDIA	19 JUN	1439.8	8.4	35965	35751				
1981 057C		12546	ESA	19 JUN	527.6	10.7	30273	227				

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1981 LAUNCHES (CONT.)										
1981 0570		12562	ESA	19 JUN	204.6	10.6	10100	145		
1981 057F		20837	ESA	19 JUN	1449.5	8.4	36312	35784		
1981 058A	COSMOS 1278	12547	USSR	19 JUN	717.6	67.2	36674	3673		
1981 0590		12561	USSR	19 JUN	723.9	67.5	37658	2999		
1981 058E		17256	USSR	19 JUN	717.8	67.2	36680	3675		
1981 059A	NOAA 7	12553	US	23 JUN	101.7	99.0	848	830		
1981 0598		12559	US	23 JUN	101.0	98.9	809	801		
1981 059C		12560	US	23 JUN	101.0	98.9	808	802		
1981 0600		12563	USSR	24 JUN	722.0	64.1	40288	272		
1981 061A	EKRAN 7	12564	USSR	25 JUN	1436.8	9.0	35849	35750		
1981 061F		12851	USSR	25 JUN	1425.6	8.9	35587	35576		
1981 065A	METEOR 1-31	12585	USSR	10 JUL	96.7	97.8	621	581		
1981 065B		12586	USSR	10 JUL	96.9	97.8	625	593		
1981 069A	KADUGA 9	12618	USSR	30 JUL	1435.2	8.8	35783	35755		
1981 069F		12850	USSR	30 JUL	1474.0	9.1	36631	36416		
1981 070A	DE 1	12624	US	3 AUG	409.9	88.8	23230	569		
1981 070E		12679	US	3 AUG	411.0	88.9	23298	568		
1981 070J		14620	US	3 AUG	396.1	88.9	22478	500		
1981 070K		14621	US	3 AUG	398.2	88.9	22570	534		
1981 070L		19478	US	3 AUG	404.2	88.9	22896	562		
1981 071A	COSMOS 1295	12627	USSR	4 AUG	727.0	67.9	36433	4373		
1981 071D		12680	USSR	4 AUG	722.8	67.9	36081	4518		
1981 071E		12993	USSR	4 AUG	727.7	67.9	36395	4447		
1981 071F		13961	USSR	4 AUG	726.8	64.2	38048	2748		
1981 073A	FLTSATCOM 5	12635	US	6 AUG	1460.4	7.3	36309	36211		
1981 074A	COSMOS 1287	12636	USSR	6 AUG	115.7	74.0	1510	1462		
1981 074B	COSMOS 1288	12637	USSR	6 AUG	115.5	74.0	1490	1462		
1981 074C	COSMOS 1289	12638	USSR	6 AUG	114.7	74.0	1462	1424		
1981 074D	COSMOS 1290	12639	USSR	6 AUG	114.9	74.0	1462	1439		
1981 074E	COSMOS 1291	12640	USSR	6 AUG	115.1	74.0	1462	1456		
1981 074F	COSMOS 1292	12641	USSR	6 AUG	115.3	74.0	1475	1461		
1981 074G	COSMOS 1293	12642	USSR	6 AUG	114.6	74.0	1462	1407		
1981 074H	COSMOS 1294	12643	USSR	6 AUG	114.4	74.0	1462	1390		
1981 074J		12644	USSR	6 AUG	117.4	74.0	1670	1461		
1981 075A	INTERCOSMOS	12645	USSR	7 AUG	101.6	81.2	882	790		
1981 075B		12646	USSR	7 AUG	101.8	81.2	890	793		
1981 076A	GMS 2	12677	JAPAN	10 AUG	1446.4	7.4	36027	35949		
1981 077A	COSMOS 1295	12681	USSR	12 AUG	104.6	82.9	1009	943		
1981 077B		12682	USSR	12 AUG	104.5	82.9	996	943		
1981 081A	COSMOS 1299	12783	USSR	24 AUG	103.9	65.1	979	909		
1981 082A	COSMOS 1300	12785	USSR	24 AUG	96.9	82.5	620	595		
1981 082B		12786	USSR	24 AUG	97.3	82.5	643	617		
1981 084A	COSMOS 1302	12791	USSR	28 AUG	100.6	74.0	798	771		
1981 084B		12792	USSR	28 AUG	100.4	74.0	788	767		
1981 084C		12793	USSR	28 AUG	100.1	74.0	766	760		
1981 084D		14810	USSR	28 AUG	100.7	74.0	805	773		
1981 087A	COSMOS 1304	12803	USSR	4 SEP	103.8	82.9	973	903		
1981 087B		12804	USSR	4 SEP	103.7	82.9	965	900		
1981 088A	COSMOS 1305	12818	USSR	11 SEP	263.7	63.5	13308	1176		
1981 083F		12827	USSR	11 SEP	262.4	63.5	13262	1133		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1981 LAUNCHES (CONT.)										
1981 088G		14131	USSR	11 SEP	247.8	63.2	12509	874		
1981 083H		18598	USSR	11 SEP	251.1	63.8	12818	792		
1981 091A	COSMOS 1308	12835	USSR	18 SEP	104.7	82.9	999	960		
1981 091H		12836	USSR	18 SEP	104.6	82.9	992	960		
1981 094A	UREOL 3	12848	USSR	21 SEP	106.4	82.5	1723	394		
1981 094B		12849	USSR	21 SEP	108.2	82.5	1888	400		
1981 096A	SBS 2	12855	US	24 SEP	1436.2	3.6	35792	35783		
1981 098A	COSMOS 1312	12879	USSR	30 SEP	115.9	92.6	1499	1490		
1981 098B		12880	USSR	30 SEP	115.8	82.6	1497	1487		
1981 100C		12889	US	6 OCT	118.8	99.9	2700	549		
1981 102A	RADUGA 10	12897	USSR	9 OCT	1436.3	8.7	35807	35774		
1981 102F		14195	USSR	9 OCT	1436.7	8.7	35858	35739		
1981 103A	COSMOS 1315	12903	USSR	13 OCT	96.6	81.2	611	578		
1981 103B		12904	USSR	13 OCT	97.0	81.2	642	584		
1981 105A	MOLNIYA 3-17	12915	USSR	17 OCT	713.7	63.8	39467	684		
1981 105E		12920	USSR	17 OCT	733.2	64.1	40232	878		
1981 106A	VENERA 13	12927	USSR	30 OCT	HELIOCENTRIC ORBIT					
1981 107A		12930	US	31 OCT	ELEMENTS NOT AVAILABLE					
1981 107C		12932	US	31 OCT	ELEMENTS NOT AVAILABLE					
1981 108A	COSMOS 1317	12933	USSR	31 OCT	719.0	68.1	35645	4771		
1981 108D		12940	USSR	31 OCT	723.2	68.0	36361	4258		
1981 108E		14734	USSR	31 OCT	713.6	65.3	36709	3438		
1981 108F		14735	USSR	31 OCT	714.7	65.1	36478	3725		
1981 108G		14736	USSR	31 OCT	719.4	62.9	38860	1576		
1981 110A	VENERA 14	12938	USSR	4 NOV	HELIOCENTRIC ORBIT					
1981 113A	MOLNIYA 1-51	12959	USSR	17 NOV	717.5	64.0	39680	661		
1981 113D		12986	USSR	17 NOV	698.9	64.2	38618	798		
1981 114A	RCA SATCOM IIIR	12967	US	20 NOV	1438.7	0.9	35848	35828		
1981 116A	COSMOS 1320	12975	USSR	28 NOV	117.2	74.0	1632	1479		
1981 116B	COSMOS 1321	12976	USSR	28 NOV	117.2	74.0	1629	1480		
1981 116C	COSMOS 1322	12977	USSR	28 NOV	117.2	74.0	1626	1479		
1981 116D	COSMOS 1323	12978	USSR	28 NOV	117.1	74.0	1622	1480		
1981 116E	COSMOS 1324	12979	USSR	28 NOV	117.1	74.0	1618	1479		
1981 116F	COSMOS 1325	12980	USSR	28 NOV	117.0	74.0	1614	1479		
1981 116G	COSMOS 1326	12981	USSR	28 NOV	117.0	74.0	1609	1479		
1981 116H	COSMOS 1327	12982	USSR	28 NOV	116.9	74.0	1601	1479		
1981 116J		12983	USSR	28 NOV	117.5	74.0	1660	1479		
1981 117A	COSMOS 1328	12987	USSR	3 DEC	57.0	92.5	627	601		
1981 117B		12988	USSR	3 DEC	97.3	82.5	645	617		
1981 119A	INTELSAT 5 F-3	12994	ITSO	15 DEC	1436.1	2.5	35806	35768		
1981 119B		13007	US	15 DEC	225.6	23.5	11474	118		
1981 120A	RADIO 3	12997	USSR	17 DEC	118.4	83.0	1655	1562		
1981 120B	RADIO 8	12998	USSR	17 DEC	119.6	83.0	1679	1649		
1981 120C	RADIO 5	12999	USSR	17 DEC	119.4	83.0	1666	1644		
1981 120D	RADIO 4	13000	USSR	17 DEC	119.3	83.0	1663	1633		
1981 120E	RADIO 7	13001	USSR	17 DEC	119.1	83.0	1658	1620		
1981 120F	RADIO 6	13002	USSR	17 DEC	118.6	83.0	1658	1577		
1981 120G		13003	USSR	17 DEC	120.8	83.0	1732	1649		
1981 122A	MARECS A	13010	ESA	20 DEC	1436.2	2.6	35799	35779		
1981 122B	CAT 4	13011	ESA	20 DEC	552.9	10.4	31608	263		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1981 LAUNCHES (CONT.)										
1981 123A	MOLNIYA 1-52	13012	USSR	23 DEC	717.6	63.6	38292	2047		
1981 1230		13016	USSR	23 DEC	655.3	64.0	37064	2172		
1982 LAUNCHES										
1982 001A	COSMOS 1331	13027	USSR	7 JAN	100.4	74.0	795	759		
1982 001B		13028	USSR	7 JAN	100.4	74.0	790	760		
1982 001C		13029	USSR	7 JAN	100.1	74.0	772	753		
1982 0010		13030	USSR	7 JAN	99.6	74.0	756	721		
1982 003A	COSMOS 1333	13033	USSR	14 JAN	104.9	82.9	1010	965		
1982 003B		13034	USSR	14 JAN	104.7	82.9	1004	957		
1982 004A	RCA SATCOM IV	13035	US	16 JAN	1445.9	0.2	35996	35961		
1982 006C		13103	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 006D		13104	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 006E		13105	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 006F		13152	US	21 JAN	ELEMENTS NOT AVAILABLE					
1982 009A	EKRAN 8	13056	USSR	5 FEB	1440.9	8.5	35991	35768		
1982 009D		13059	USSR	5 FEB	538.2	48.3	29461	1614		
1982 009F		14117	USSR	5 FEB	1426.1	8.4	35770	35409		
1982 012A	COSMOS 1339	13065	USSR	17 FEB	104.7	82.9	1012	947		
1982 012B		13066	USSR	17 FEB	104.6	82.9	1005	942		
1982 013A	COSMOS 1340	13067	USSR	19 FEB	96.8	81.2	611	596		
1982 013B		13068	USSR	19 FEB	96.8	81.2	630	584		
1982 014A	WESTAR 4	13069	US	26 FEB	1443.3	0.1	35936	35922		
1982 015A	MOLNIYA 1-53	13070	USSR	26 FEB	717.8	63.6	39465	889		
1982 015D		13075	USSR	26 FEB	730.9	63.8	40060	936		
1982 016A	COSMOS 1341	13080	USSR	3 MAR	718.6	67.5	35720	4675		
1982 016D		13090	USSR	3 MAR	709.0	67.4	35574	4344		
1982 017A	INTELSAT 5 F-4	13083	ITSO	5 MAR	1436.0	2.5	35902	35770		
1982 019A		13086	US	6 MAR	ELEMENTS NOT AVAILABLE					
1982 019B		13089	US	6 MAR	ELEMENTS NOT AVAILABLE					
1982 020A	GORIZONT 5	13092	USSR	15 MAR	1461.5	8.3	36430	36135		
1982 020F		13899	USSR	15 MAR	1460.0	8.5	36381	36124		
1982 023A	MOLNIYA 3-18	13107	USSR	24 MAR	710.4	64.1	39786	202		
1982 023D		13112	USSR	24 MAR	731.6	64.5	40726	306		
1982 024A	COSMOS 1344	13110	USSR	24 MAR	104.8	92.9	1007	963		
1982 024B		13111	USSR	24 MAR	104.7	92.9	1010	943		
1982 025A	METEOR 2	13113	USSR	25 MAR	104.0	82.5	956	934		
1982 025B		13114	USSR	25 MAR	104.0	92.5	956	935		
1982 027A	COSMOS 1346	13120	USSR	31 MAR	96.6	81.2	611	581		
1982 027B		13121	USSR	31 MAR	96.9	81.2	640	579		
1982 029A	COSMOS 1348	13124	USSR	7 APR	718.4	67.7	35817	4569		
1982 029D		13169	USSR	7 APR	705.4	67.8	35636	4102		
1982 030A	COSMOS 1349	13127	USSR	8 APR	104.8	82.9	1009	962		
1982 030B		13128	USSR	8 APR	104.7	82.9	1001	957		
1982 031A	INSAT-1A	13129	INDIA	10 APR	1434.2	0.1	35936	35562		
1982 037A	COSMOS 1354	13148	USSR	28 APR	100.7	74.0	799	784		
1982 037B		13149	USSR	28 APR	100.5	74.0	795	773		
1982 037C		14811	USSR	28 APR	100.8	74.0	815	777		
1982 039A	COSMOS 1356	13153	USSR	5 MAY	96.9	81.2	623	593		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
		CATALOG NUMBER	SOURCE	LAUNCH								
1982 LAUNCHES (CONT.)												
1982 0398		13154	USSR	5 MAY	97.2	81.2	665	587				
1982 040A	COSMOS 1357	13160	USSR	6 MAY	114.6	74.0	1476	1399				
1982 040B	COSMOS 1358	13161	USSR	6 MAY	114.8	74.0	1479	1413				
1982 040C	COSMOS 1359	13162	USSR	6 MAY	115.0	74.0	1479	1429				
1982 040D	COSMOS 1360	13163	USSR	6 MAY	115.2	74.0	1480	1443				
1982 040E	COSMOS 1361	13164	USSR	6 MAY	115.3	74.0	1482	1459				
1982 040F	COSMOS 1362	13165	USSR	6 MAY	115.5	74.0	1493	1465				
1982 040G	COSMOS 1363	13166	USSR	6 MAY	115.7	74.0	1502	1472				
1982 040H	COSMOS 1364	13167	USSR	6 MAY	115.9	74.0	1522	1472				
1982 040J		13168	USSR	6 MAY	117.7	74.1	1686	1469				
1982 041C		13172	US	11 MAY	ELEMENTS NOT AVAILABLE							
1982 043A	COSMOS 1365	13175	USSR	14 MAY	103.6	65.1	961	899				
1982 043D		13594	USSR	14 MAY	103.4	65.1	943	890				
1982 044A	COSMOS 1366	13177	USSR	17 MAY	1436.4	8.0	35845	35738				
1982 044F		14114	USSR	17 MAY	1435.7	8.0	35859	35697				
1982 045A	COSMOS 1367	13205	USSR	20 MAY	719.5	66.9	36224	4165				
1982 045D		13215	USSR	20 MAY	704.0	66.8	36224	3450				
1982 050A	MOLNIYA 1-54	13237	USSR	28 MAY	717.6	64.5	39940	403				
1982 050E		13253	USSR	28 MAY	732.1	64.8	40490	568				
1982 051A	COSMOS 1371	13241	USSR	1 JUN	100.7	74.0	801	783				
1982 051B		13242	USSR	1 JUN	100.5	74.0	800	764				
1982 051C		14398	USSR	1 JUN	100.4	74.0	781	776				
1982 051D		18502	USSR	1 JUN	100.5	74.1	781	779				
1982 051E		18509	USSR	1 JUN	100.5	74.0	789	771				
1982 051F		18510	USSR	1 JUN	100.5	74.0	795	769				
1982 051G		19102	USSR	1 JUN	100.4	74.0	789	765				
1982 052A	COSMOS 1372	13243	USSR	1 JUN	103.9	64.9	981	904				
1982 052D		13416	USSR	1 JUN	103.6	64.9	952	904				
1982 055A	COSMOS 1375	13259	USSR	6 JUN	105.0	65.8	1002	987				
1982 055B	- 055RM		USSR	6 JUN	SEE NOTE	65.8	37*				37*	
1982 058A	WESTAR 5	13269	US	9 JUN	1436.1	0.0	35796	35778				
1982 059A	COSMOS 1378	13271	USSR	10 JUN	97.0	82.5	628	599				
1982 059B		13272	USSR	10 JUN	97.3	82.5	647	615				
1982 064A	COSMOS 1382	13295	USSR	25 JUN	718.2	68.0	35815	4560				
1982 064D		13298	USSR	25 JUN	708.4	67.8	35606	4282				
1982 066A	COSMOS 1383	13301	USSR	29 JUN	105.2	82.9	1025	982				
1982 066B		13302	USSR	29 JUN	105.1	82.9	1028	968				
1982 069A	COSMOS 1386	13353	USSR	7 JUL	104.6	83.0	1005	948				
1982 069B		13354	USSR	7 JUL	104.5	83.0	1007	931				
1982 072A	LANDSAT 4	13367	US	16 JUL	98.8	98.0	711	693				
1982 073A	COSMOS 1388	13375	USSR	21 JUL	114.5	74.0	1473	1390				
1982 073B	COSMOS 1389	13376	USSR	21 JUL	114.7	74.0	1473	1407				
1982 073C	COSMOS 1390	13377	USSR	21 JUL	114.9	74.0	1473	1424				
1982 073D	COSMOS 1391	13378	USSR	21 JUL	115.0	74.0	1473	1440				
1982 073E	COSMOS 1392	13379	USSR	21 JUL	115.2	74.0	1473	1458				
1982 073F	COSMOS 1393	13380	USSR	21 JUL	115.4	74.0	1480	1468				
1982 073G	COSMOS 1394	13381	USSR	21 JUL	115.6	74.0	1494	1472				
1982 073H	COSMOS 1395	13382	USSR	21 JUL	115.9	74.0	1514	1471				
1982 073J		13386	USSR	21 JUL	117.9	74.0	1709	1463				
1982 074A	MOLNIYA 1-55	13383	USSR	21 JUL	715.9	64.2	40008	255				

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1982 LAUNCHES (CONT.)										
1982 0740		13390	USSR	21 JUL	698.1	64.2	39035	344		
1982 079A	COSMOS 1400	13402	USSR	5 AUG	96.5	81.2	600	585		
1982 079B		13403	USSR	5 AUG	97.0	81.2	650	577		
1982 082A	ANIK D-1	13431	CANADA	26 AUG	1438.6	0.6	35843	35831		
1982 083A	MOLNIYA 3-19	13432	USSR	27 AUG	718.0	63.9	38337	2026		
1982 083E		13446	USSR	27 AUG	733.1	64.3	39041	2066		
1982 087A	ETS 3	13492	JAPAN	3 SEP	107.2	44.6	1227	966		
1982 087B		13493	JAPAN	3 SEP	105.1	44.6	1009	991		
1982 087C		13510	JAPAN	3 SEP	107.0	44.5	1230	945		
1982 087D		14569	JAPAN	3 SEP	106.3	44.9	1146	963		
1982 092A	COSMOS 1408	13552	USSR	16 SEP	96.9	82.6	625	595		
1982 092R		13553	USSR	16 SEP	97.4	82.6	650	615		
1982 093A	EKRAN 9	13554	USSR	16 SEP	1435.2	8.0	35869	35668		
1982 093F		14115	USSR	16 SEP	1422.2	7.9	35536	35492		
1982 095A	COSMOS 1409	13585	USSR	22 SEP	719.0	65.6	36686	3728		
1982 095D		13591	USSR	22 SEP	707.2	65.8	37063	2766		
1982 096A	COSMOS 1410	13589	USSR	24 SEP	115.9	82.6	1500	1489		
1982 096B		13590	USSR	24 SEP	115.8	82.6	1498	1487		
1982 097A	INTELSAT 5F 5	13595	ITSO	28 SEP	1436.1	1.9	35803	35772		
1982 097B		13599	US	28 SEP	99.7	24.2	1297	186		
1982 099A	COSMOS 1412	13600	USSR	2 OCT	103.9	64.8	976	908		
1982 099E		13653	USSR	2 OCT	103.6	64.8	943	911		
1982 100A	COSMOS 1413	13603	USSR	12 OCT	673.3	64.7	19074	19062		
1982 100D	COSMOS 1414	13606	USSR	12 OCT	675.7	64.7	19210	19048		
1982 100E	COSMOS 1415	13607	USSR	12 OCT	673.5	64.7	19073	19072		
1982 100F		13608	USSR	12 OCT	292.4	52.1	16162	265		
1982 100G		13609	USSR	12 OCT	309.7	52.1	17273	293		
1982 100H		13610	USSR	12 OCT	672.9	64.7	19070	19044		
1982 102A	COSMOS 1417	13617	USSR	19 OCT	104.7	83.0	1005	955		
1982 102B		13618	USSR	19 OCT	104.6	83.0	998	952		
1982 103A	GORIZONT 6	13624	USSR	20 OCT	1437.7	7.5	35825	35808		
1982 103E		13630	USSR	20 OCT	1434.4	7.5	35814	35691		
1982 105A	RCA SATCOM-V	13631	US	28 OCT	1436.1	0.8	35802	35772		
1982 106A		13636	US	30 OCT	1436.0	4.9	35794	35772		
1982 106B		13637	US	30 OCT	1436.1	1.7	35795	35779		
1982 106D		13643	US	30 OCT	1449.8	6.0	36210	35900		
1982 109A	COSMOS 1420	13648	USSR	11 NOV	100.6	74.0	801	770		
1982 109B		13649	USSR	11 NOV	100.4	74.0	793	765		
1982 109D		15528	USSR	11 NOV	100.3	74.0	785	764		
1982 110B	SDS 3	13651	US	11 NOV	1436.2	0.4	35794	35781		35*
1982 110C	ANIK C-3	13652	CANADA	12 NOV	1436.1	0.4	35797	35778		35*
1982 110D		13658	US	11 NOV	632.5	23.7	35738	321		
1982 110E		13666	US	11 NOV	631.5	23.4	35677	329		
1982 113A	RADUGA 11	13669	USSR	26 NOV	1473.8	7.0	36694	36349		
1982 113F		13954	USSR	26 NOV	1475.9	7.2	36656	36466		
1982 115B	- 115AJ		USSR	8 DEC	SEE NOTE	36*				36*
1982 116A	METEOR 2-9	13718	USSR	14 DEC	101.8	81.2	882	803		
1982 116B		13719	USSR	14 DEC	101.9	81.2	897	796		
1982 116C		13720	USSR	14 DEC	101.8	81.2	883	802		
1982 116D		17755	USSR	14 DEC	101.9	81.3	896	795		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1982 LAUNCHES (CONT.)										
1982 119A		13736	US	21 DEC	101.0	98.6	812	798		
1982 118C		13738	US	21 DEC	98.6	98.6	695	690		
1983 LAUNCHES										
1983 001A	COSMOS 1428	13757	USSR	12 JAN	104.6	82.9	1001	948		
1983 001B		13758	USSR	12 JAN	104.5	82.9	990	950		
1983 001C		14568	USSR	12 JAN	103.5	82.9	942	902		
1983 002A	COSMOS 1429	13761	USSR	19 JAN	115.8	74.0	1516	1464		
1983 002B	COSMOS 1430	13762	USSR	19 JAN	115.6	74.0	1496	1465		
1983 002C	COSMOS 1431	13763	USSR	19 JAN	115.4	74.0	1481	1463		
1983 002D	COSMOS 1432	13764	USSR	19 JAN	115.2	74.0	1466	1460		
1983 002E	COSMOS 1433	13765	USSR	19 JAN	115.0	74.0	1466	1443		
1983 002F	COSMOS 1434	13766	USSR	19 JAN	114.8	74.0	1465	1428		
1983 002G	COSMOS 1435	13767	USSR	19 JAN	114.6	74.0	1466	1412		
1983 002H	COSMOS 1436	13768	USSR	19 JAN	114.5	74.0	1465	1396		
1983 002J		13769	USSR	19 JAN	117.9	74.0	1693	1476		
1983 003A	COSMOS 1437	13770	USSR	20 JAN	96.7	81.2	615	588		
1983 003B		13771	USSR	20 JAN	96.9	81.2	644	578		
1983 004A	IRAS	13777	US	26 JAN	102.9	99.0	903	885		
1983 004B		13778	US	26 JAN	102.3	100.1	882	851		
1983 004C		13783	US	26 JAN	102.8	99.0	898	884		
1983 006A	CS-2A	13782	JAPAN	4 FEB	1448.5	4.1	36091	35966		
1983 006B		13786	JAPAN	4 FEB	160.2	28.5	6555	228		
1983 008A		13791	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 008B		13792	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 008C		13834	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 009D		13835	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 008E		13844	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 008F		13845	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 008G		13849	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 008H		13874	US	9 FEB	ELEMENTS NOT AVAILABLE	ELEMENTS NOT AVAILABLE				
1983 010A	COSMOS 1441	13818	USSR	16 FEB	96.5	81.1	593	588		
1983 010B		13819	USSR	16 FEB	96.9	81.1	643	563		
1983 015A	MOLNIYA 3-20	13875	USSR	11 MAR	717.2	64.2	38923	1402		
1983 015E		13892	USSR	11 MAR	731.9	64.4	39640	1408		
1983 016A	EKRAN 10	13878	USSR	12 MAR	1515.4	8.4	37485	37163		
1983 016F		14086	USSR	12 MAR	1424.2	8.1	35596	35512		
1983 019A	MOLNIYA 1-56	13890	USSR	16 MAR	720.7	64.1	39351	1146		
1983 019D		13897	USSR	16 MAR	732.7	64.1	39881	1206		
1983 020A	ASTRON	13901	USSR	23 MAR	5937.0	24.8	188376	16088		
1983 020J		20413	USSR	23 MAR	5833.7	23.9	188102	13835		
1983 021A	COSMOS 1447	13916	USSR	24 MAR	104.7	82.9	1010	952		
1983 021B		13917	USSR	24 MAR	104.6	82.9	997	955		
1983 022A	MJAA 3	13923	US	28 MAR	101.0	98.5	818	795		
1983 023A	COSMOS 1448	13949	USSR	30 MAR	104.7	83.0	1000	956		
1983 023J		13950	USSR	30 MAR	104.6	83.0	1003	948		
1983 025A	MOLNIYA 1-57	13964	USSR	2 APR	719.1	63.9	38769	1549		
1983 025D		13967	USSR	2 APR	699.2	64.3	37617	1817		
1983 025B	TORS 1	13969	US	4 APR	1436.1	5.7	35807	35767		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1983 LAUNCHES (CONT.)														
1983 026C		13970	US	4 APR	1089.7	3.9	35302	22095						
1983 026D		13971	US	4 APR	538.4	25.9	30831	260						
1983 028A	RADUGA 12	13974	USSR	8 APR	1435.8	6.7	35794	35767						
1983 028F		13983	USSR	8 APR	1439.5	6.8	35968	35739						
1983 030A	RCA SATCOM VI	13984	US	11 APR	1436.1	0.0	35947	35626						
1983 030B		13985	US	11 APR	115.3	25.3	2643	297						
1983 031A	COSMOS 1452	13991	USSR	12 APR	100.6	74.0	800	775						
1983 031B		13992	USSR	12 APR	100.5	74.1	787	776						
1983 031D		14812	USSR	12 APR	100.8	74.1	812	780						
1983 037A	COSMOS 1455	14032	USSR	23 APR	97.0	82.5	625	600						
1983 037B		14033	USSR	23 APR	97.4	82.5	648	619						
1983 038A	COSMOS 1456	14034	USSR	25 APR	717.1	56.9	37248	3072						
1983 038E		14041	USSR	25 APR	707.2	66.7	37005	2827						
1983 038H		14297	USSR	25 APR	768.0	66.8	39127	3676						
1983 038J		14301	USSR	25 APR	789.5	57.0	43591	246						
1983 038K		14306	USSR	25 APR	720.6	64.3	39697	795						
1983 041A	GOES 6	14050	US	28 APR	1436.0	3.5	35791	35779						
1983 041B		14051	US	28 APR	115.9	25.4	2582	405						
1983 041C		14069	US	28 APR	1707.4	9.6	49359	32527						
1983 042A	COSMOS 1459	14057	USSR	6 MAY	104.6	83.0	1014	938						
1983 042B		14059	USSR	6 MAY	104.5	83.0	1004	936						
1983 044A	COSMOS 1461	14064	USSR	7 MAY	98.7	65.0	817	574						
1983 044B	- 044FQ		USSR	7 MAY	SEE NOTE	39*								39*
1983 046A	COSMOS 1463	14075	USSR	19 MAY	94.6	82.9	728	265						
1983 047A	INTELSAT 5 F-6	14077	ITSO	19 MAY	1436.1	0.9	35804	35768						
1983 048A	COSMOS 1464	14084	USSR	24 MAY	104.8	82.9	1005	961						
1983 048B		14085	USSR	24 MAY	104.7	82.9	999	956						
1983 051B		14096	US	26 MAY	119.1	72.3	2519	758						
1983 053A	VENERA 15	14104	USSR	2 JUN	HELIOCENTRIC ORBIT									
1983 054A	VENERA 16	14107	USSR	7 JUN	HELIOCENTRIC ORBIT									
1983 056A		14112	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 056B		14113	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 056C		14143	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 056D		14144	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 056E		14145	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 056F		14146	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 056G		14180	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 056H		14181	US	9 JUN	ELEMENTS NOT AVAILABLE									
1983 058A	ECS 1	14128	ESA	16 JUN	1436.1	2.2	35818	35753						
1983 058B	OSCAR 10	14129	FRG	16 JUN	699.5	26.1	35574	3875						
1983 058C		14130	ESA	16 JUN	338.0	8.5	19109	282						
1983 058F		17331	ESA	16 JUN	116.4	7.6	2730	307						
1983 059B	ANIK C2	14133	CANADA	18 JUN	1436.0	0.3	35796	35778						35*
1983 059C	PALAPA 81	14134	INDNSA	18 JUN	1436.2	1.5	35790	35785						35*
1983 059D		14135	US	18 JUN	607.0	22.6	34466	270						
1983 059E		14136	US	18 JUN	625.0	25.3	35350	321						
1983 060C		14139	US	20 JUN	ELEMENTS NOT AVAILABLE									
1983 061A	COSMOS 1470	14147	USSR	22 JUN	97.1	82.5	633	504						
1983 061B		14148	USSR	22 JUN	97.4	82.5	650	619						
1983 063A		14154	US	27 JUN	100.6	82.0	821	755						

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1983 0638		14155	US	27 JUN	100.6	82.0	817	751		
1983 063C		14222	US	27 JUN	99.7	82.4	765	727		
1983 063D		14223	US	27 JUN	100.9	81.7	847	752		
1983 065A	GALAXY 1	14158	US	28 JUN	1436.0	0.0	35790	35781		
1983 065C		14168	US	28 JUN	304.3	23.1	16970	249		
1983 066A	GORIZONT 7	14160	USSR	30 JUN	1464.3	6.4	36381	36291		
1983 066E		14167	USSR	30 JUN	180.7	46.5	8217	202		
1983 066F		15141	USSR	30 JUN	1475.2	6.6	36602	36494		
1983 067A	PROGN0Z 9	14163	USSR	1 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1983 069A	COSMOS 1473	14171	USSR	6 JUL	114.4	74.0	1460	1392		
1983 069B	COSMOS 1474	14172	USSR	6 JUL	114.6	74.0	1460	1409		
1983 069C	COSMOS 1475	14173	USSR	6 JUL	114.7	74.0	1460	1427		
1983 069D	COSMOS 1476	14174	USSR	6 JUL	114.9	74.0	1460	1444		
1983 069E	COSMOS 1477	14175	USSR	6 JUL	115.1	74.0	1462	1459		
1983 069F	COSMOS 1478	14176	USSR	6 JUL	115.3	74.0	1479	1460		
1983 069G	COSMOS 1479	14177	USSR	6 JUL	115.5	74.0	1497	1460		
1983 069H	COSMOS 1480	14178	USSR	6 JUL	115.8	74.0	1517	1461		
1983 069J		14179	USSR	6 JUL	117.4	74.0	1671	1460		
1983 070A	COSMOS 1481	14182	USSR	8 JUL	707.3	67.3	36139	3698		
1983 070D		14191	USSR	8 JUL	708.0	67.4	36038	3832		
1983 070E		14192	USSR	8 JUL	708.9	67.3	36232	3682		
1983 070F		20412	USSR	8 JUL	705.8	67.5	36835	2925		
1983 072A		14189	US	14 JUL	717.9	63.7	20554	19808		
1983 072B		14190	US	14 JUL	371.8	64.1	20288	1209		
1983 073A	MOLNIYA 1-58	14199	USSR	19 JUL	622.1	64.0	35267	256		
1983 075A	COSMOS 1484	14207	USSR	24 JUL	96.3	97.6	605	554		
1983 075B		14208	USSR	24 JUL	96.9	97.6	635	584		
1983 075C		14209	USSR	24 JUL	96.6	97.6	626	565		
1983 075D		14229	USSR	24 JUL	97.2	97.7	651	596		
1983 075E		14631	USSR	24 JUL	96.5	97.6	609	572		
1983 075F		14928	USSR	24 JUL	96.9	97.6	634	585		
1983 077A		14234	US	28 JUL	1436.1	0.0	35794	35780		
1983 077C		14236	US	28 JUL	226.3	22.7	11597	244		
1983 078A		14237	US	31 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1983 078B		14238	US	31 JUL	CURRENT ELEMENTS NOT MAINTAINED					
1983 079A	COSMOS 1486	14240	USSR	3 AUG	100.6	74.1	796	775		
1983 079B		14241	USSR	3 AUG	100.5	74.1	795	767		
1983 079C		14344	USSR	3 AUG	100.7	74.1	806	776		
1983 079D		14813	USSR	3 AUG	100.8	74.0	814	781		
1983 079E		15756	USSR	3 AUG	99.9	74.1	764	746		
1983 081A	CS-2B	14248	JAPAN	5 AUG	1457.3	3.4	36219	36183		
1983 084A	COSMOS 1490	14258	USSR	10 AUG	675.7	64.8	19168	19091		
1983 084B	COSMOS 1491	14259	USSR	10 AUG	663.4	64.7	19069	18820		
1983 084C	COSMOS 1492	14260	USSR	10 AUG	676.8	64.8	19159	19154		
1983 084F		14264	USSR	10 AUG	676.3	64.8	19158	19128		
1983 084G		14277	USSR	10 AUG	327.6	52.0	18391	333		
1983 084H		14278	USSR	10 AUG	326.8	52.2	18342	331		
1983 088A	RADUGA 13	14307	USSP	25 AUG	1466.8	5.4	36448	36323		
1983 088F		14333	USSR	25 AUG	1475.2	6.5	36639	36457		
1983 089B	INSAT 1B	14318	INDIA	31 AUG	1436.2	2.2	35826	35748		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1983 089C		14524	US	31 AUG	567.7	24.0	32390	277		
1983 090A	MOLNIYA 3-21	14313	USSR	30 AUG	716.6	64.4	38453	1844		
1983 090D		14319	USSR	30 AUG	731.3	64.3	39256	1762		
1983 091C	091AC		USSR	31 AUG	SEE NOTE		38*			38*
1983 094A	RGA SATCOM VII	14328	US	8 SEP	1436.2	0.1	35813	35763		
1983 094B		14329	US	8 SEP	112.2	25.5	2373	282		
1983 098A	GALAXY 2	14365	US	22 SEP	1436.1	0.0	35794	35781		
1983 092A	COSMOS 1500	14372	USSR	28 SEP	97.0	82.5	630	600		
1983 099B		14373	USSR	28 SEP	97.4	82.5	650	618		
1983 100A	cKRAN 11	14377	USSR	30 SEP	1437.0	7.0	35811	35797		
1983 100F		14394	USSR	30 SEP	1425.0	7.1	35657	35481		
1983 103A	COSMOS 1503	14401	USSR	12 OCT	100.7	74.0	801	780		
1983 103B		14402	USSR	12 OCT	100.5	74.0	804	761		
1983 105A	INTELSAT 5 F-7	14421	ITSO	19 OCT	1436.2	1.3	35802	35775		
1983 108A	COSMOS 1506	14450	USSR	26 OCT	104.6	82.9	1008	947		
1983 108B		14451	USSR	26 OCT	104.5	82.9	998	946		
1983 109A	METEOR 2-10	14452	USSR	28 OCT	101.1	81.2	876	744		
1983 109B		14453	USSR	28 OCT	101.2	81.2	890	737		
1983 109C		14454	USSR	28 OCT	101.1	81.2	879	740		
1983 111A	COSMOS 1508	14483	USSR	11 NOV	107.3	82.9	1805	393		
1983 111B		14484	USSR	11 NOV	105.3	82.9	1649	369		
1983 113A		14506	US	18 NOV	101.1	98.4	819	803		
1983 113D		14609	US	18 NOV	97.1	98.6	625	611		
1983 113E		14610	US	18 NOV	98.8	98.6	706	700		
1983 114A	MOLNIYA 1-59	14516	USSR	23 NOV	717.8	64.2	38617	1735		
1983 114D		14520	USSR	23 NOV	699.2	64.3	37591	1841		
1983 115A	COSMOS 1510	14521	USSR	24 NOV	116.0	73.6	1521	1478		
1983 115B		14522	USSR	24 NOV	115.9	73.6	1518	1477		
1983 118A	GORIZONT 8	14532	USSR	30 NOV	1465.4	6.0	36484	36232		
1983 118F		14548	USSR	30 NOV	1436.1	6.0	35970	35601		
1983 120A	COSMOS 1513	14546	USSR	8 DEC	104.8	82.9	1013	955		
1983 120B		14547	USSR	8 DEC	104.6	82.9	1009	940		
1983 122A	COSMOS 1515	14551	USSR	15 DEC	97.0	82.5	629	501		
1983 122B		14552	USSR	15 DEC	97.4	82.5	649	619		
1983 123A	MOLNIYA 3-22	14570	USSR	21 DEC	717.8	64.8	38604	1749		
1983 123D		14582	USSR	21 DEC	732.5	65.0	39877	1198		
1983 126A	COSMOS 1518	14587	USSR	28 DEC	714.1	67.0	36973	3199		
1983 126D		14596	USSR	28 DEC	705.4	66.9	36701	3041		
1983 127A	COSMOS 1519	14590	USSR	29 DEC	675.7	66.3	19187	19071		
1983 127B	COSMOS 1520	14591	USSR	29 DEC	675.7	66.4	19148	19110		
1983 127C	COSMOS 1521	14592	USSR	29 DEC	673.4	66.3	19151	18990		
1983 127F		14595	USSR	29 DEC	673.1	66.3	19145	18980		
1983 127G		14607	USSR	29 DEC	327.0	52.0	18265	420		
1983 127H		14608	USSR	29 DEC	331.9	51.6	18633	371		
1983 127J		21752	USSR	29 DEC	231.3	52.9	11612	597		
1983 127K		21753	USSR	29 DEC	270.9	52.1	14412	568		
1984 LAUNCHES										
1984 001A	COSMOS 1522	14611	USSR	5 JAN	115.4	74.0	1491	1459		

INFR- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT					CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1984 LAUNCHES (CONT.)																
1984 001B	COSMOS 1522					14612	USSR	5 JAN	114.4	74.0		1459	1394			
1984 001C	COSMOS 1524					14613	USSR	5 JAN	114.6	74.0		1459	1410			
1984 001D	COSMOS 1525					14614	USSR	5 JAN	114.7	74.0		1459	1425			
1984 001E	COSMOS 1526					14615	USSR	5 JAN	114.9	74.0		1459	1441			
1984 001F	COSMOS 1527					14616	USSR	5 JAN	115.1	74.0		1459	1457			
1984 001G	COSMOS 1528					14617	USSR	5 JAN	115.3	74.0		1475	1458			
1984 001H	COSMOS 1529					14618	USSR	5 JAN	115.6	74.0		1510	1459			
1984 001J						14619	USSR	5 JAN	117.5	74.0		1670	1468			
1984 003A	COSMOS 1531					14624	USSR	11 JAN	104.9	82.9		1007	976			
1984 0036						14625	USSR	11 JAN	104.8	82.9		1001	967			
1984 005A	BS-2A					14659	JAPAN	23 JAN	1453.8	3.3		36176	36088			
1984 008A	PRC 14					14670	PRC	29 JAN	162.3	36.1		6492	460			
1984 009A						14675	US	31 JAN	CURRENT ELEMENTS NOT MAINTAINED							
1984 009C						14677	US	31 JAN	ELEMENTS NOT AVAILABLE							
1984 010A	COSMOS 1535					14679	USSR	2 FEB	104.7	83.0		1013	950			
1984 010B						14680	USSR	2 FEB	104.6	83.0		1005	947			
1984 011E						14693	US	6 FEB	96.2	28.2		884	268			
1984 011F						14694	US	3 FEB	98.2	27.7		1046	301			
1984 012A						14690	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 012B						14691	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 012C						14728	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 012D						14729	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 012F						14795	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 012J						15347	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 012K						15348	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 012L						15349	US	5 FEB	ELEMENTS NOT AVAILABLE							
1984 013A	COSMOS 1536					14699	USSR	9 FEB	97.1	82.5		635	608			
1984 013B						14700	USSR	8 FEB	97.4	32.5		649	620			
1984 016A	RADUGA 14					14725	USSR	15 FEB	1436.5	5.9		35825	35764			
1984 016F						17974	USSR	15 FEB	1435.4	6.0		35916	35631			
1984 019A	COSMOS 1538					14759	USSR	21 FEB	100.6	74.0		802	770			
1984 019B						14760	USSR	21 FEB	100.5	74.0		803	762			
1984 019C						15785	USSR	21 FEB	100.2	74.0		775	756			
1984 019D						13519	USSR	21 FEB	100.2	74.1		778	756			
1984 021A	LANDSAT 5					14780	US	1 MAR	98.5	98.2		710	670			
1984 021B	UOSAT 2					14781	UK	1 MAR	98.0	97.9		672	657			
1984 021C						14782	US	1 MAR	90.1	100.0		289	268			
1984 022A	COSMOS 1540					14783	USSR	2 MAR	1436.2	6.7		35810	35765			
1984 022F						14948	USSR	2 MAR	1442.1	6.7		36011	35795			
1984 023A	INTELSAT 5 F-8					14786	ITSJ	5 MAR	1436.1	0.6		35804	35772			
1984 0235						14787	ESA	5 MAR	554.3	11.0		31648	298			
1984 024A	COSMOS 1541					14790	USSR	6 MAR	717.3	65.6		36547	3784			
1984 024D						14796	USSR	5 MAR	709.7	65.7		36260	3695			
1984 027A	COSMOS 1544					14819	USSR	15 MAR	97.0	82.5		625	600			
1984 027B						14820	USSR	15 MAR	97.4	82.5		649	619			
1984 028A	EKRAN 12					14821	USSR	16 MAR	1499.1	7.4		37061	36960			
1984 028D						14828	USSR	16 MAR	624.7	46.6		35416	238			
1984 029F						15139	USSR	16 MAR	1419.7	7.1		35543	35388			
1984 029A	MILITARY 1-60					14825	USSR	16 MAR	717.0	64.8		39153	1163			
1984 029D						14830	USSR	16 MAR	731.0	64.9		39686	1316			

INTER- NATIONAL DESIGNATION		NAME	OBJECTS IN ORBIT					CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1984 LAUNCHES (CONT.)																	
1984 031A		COSMOS 1546					14867	USSR	29 MAR	1436.1	5.8	35877	35694				
1984 031D							14887	USSR	29 MAR	566.9	45.3	32280	345				
1984 031F							14951	USSR	29 MAR	1448.4	5.9	36095	35960				
1984 033A		COSMOS 1547					14884	USSR	4 APR	718.5	67.5	36690	3699				
1984 033D							14894	USSR	4 APR	706.6	67.4	36286	3514				
1984 035A		PRC 15					14899	PRC	8 APR	1437.8	4.5	35855	35784				
1984 035B							14900	PRC	8 APR	625.2	30.5	35243	439				
1984 037A							14930	US	14 APR	ELEMENTS NOT AVAILABLE							
1984 037B							14931	US	14 APR	ELEMENTS NOT AVAILABLE							
1984 041A		GORIZONT 9					14940	USSR	22 APR	1435.7	5.7	35788	35767				
1984 041D							14943	USSR	22 APR	1460.0	5.8	36327	36180				
1984 043A		COSMOS 1550					14965	USSR	11 MAY	104.9	83.0	1009	969				
1984 043B							14966	USSR	11 MAY	104.8	83.0	997	971				
1984 046A		COSMOS 1553					14973	USSR	17 MAY	104.7	82.9	1005	956				
1984 046B							14974	USSR	17 MAY	104.6	82.9	1009	940				
1984 047A		COSMOS 1554					14977	USSR	19 MAY	675.7	66.3	19170	19088				
1984 047B		COSMOS 1555					14978	USSR	19 MAY	675.7	66.3	19156	19102				
1984 047C		COSMOS 1556					14979	USSR	19 MAY	676.3	66.3	19161	19128				
1984 047F							14984	USSR	19 MAY	675.5	66.3	19192	19056				
1984 047G							15053	USSR	19 MAY	333.2	52.1	18726	357				
1984 047H							15054	USSR	19 MAY	314.9	52.0	17588	316				
1984 049A		SPACENET 1					14985	US	23 MAY	1436.0	0.0	35789	35783				
1984 052A		COSMOS 1559					14998	USSR	28 MAY	115.7	74.0	1508	1468				
1984 052B		COSMOS 1560					14999	USSR	28 MAY	115.5	74.0	1489	1468				
1984 052C		COSMOS 1561					15000	USSR	28 MAY	115.4	74.0	1482	1460				
1984 052D		COSMOS 1562					15001	USSR	28 MAY	115.2	74.0	1475	1451				
1984 052E		COSMOS 1563					15002	USSR	28 MAY	115.0	74.0	1475	1435				
1984 052F		COSMOS 1564					15003	USSR	28 MAY	114.8	74.0	1474	1422				
1984 052G		COSMOS 1565					15004	USSR	28 MAY	114.7	74.0	1474	1405				
1984 052H		COSMOS 1566					15005	USSR	28 MAY	114.5	74.0	1472	1391				
1984 052J							15006	USSR	28 MAY	117.6	74.0	1676	1473				
1984 055A		COSMOS 1569					15027	USSR	6 JUN	717.4	66.2	36874	3460				
1984 055D							15030	USSR	6 JUN	706.9	66.2	36657	3157				
1984 056A		COSMOS 1570					15031	USSR	8 JUN	100.7	74.1	801	783				
1984 056B							15032	USSR	8 JUN	100.6	74.1	798	773				
1984 056C							15033	USSR	8 JUN	100.8	74.1	806	784				
1984 056D							15757	USSR	8 JUN	95.7	74.0	553	552				
1984 059A							15039	US	13 JUN	718.0	63.4	20279	20085				
1984 059B							15040	US	13 JUN	365.9	62.1	20756	376				
1984 062A		COSMOS 1574					15055	USSR	21 JUN	104.8	33.0	1003	964				
1984 062B							15056	USSR	21 JUN	104.7	33.0	997	959				
1984 063A		RADUGA 15					15057	USSR	22 JUN	1437.7	5.7	35838	35797				
1984 063E							15076	USSR	22 JUN	384.6	46.7	22074	203				
1984 063F							15693	USSR	22 JUN	1394.2	5.4	35043	34881				
1984 065C							15071	US	25 JUN	ELEMENTS NOT AVAILABLE							
1984 067A		COSMOS 1577					15077	USSR	27 JUN	104.7	83.0	1006	954				
1984 067B							15078	USSR	27 JUN	104.6	83.0	993	956				
1984 068A		COSMOS 1578					15080	USSR	28 JUN	95.0	50.6	774	265				
1984 069A		COSMOS 1579					15085	USSR	29 JUN	103.9	65.0	975	910				
1984 069D							15330	USSR	29 JUN	103.6	65.0	958	898				

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1984 LAUNCHES (CONT.)											
1984 069E		19453	USSR	29 JUN		102.7	65.8	953	822		
1984 071A	COSMOS 1581	15095	USSR	3 JUL		720.9	67.9	36783	3725		
1984 071D		15098	USSR	3 JUL		705.6	67.6	36271	3481		
1984 072A	METEOR 2-11	15099	USSR	5 JUL		104.0	82.5	956	936		
1984 072B		15100	USSR	5 JUL		104.0	82.5	955	937		
1984 078A	GORIZONT 10	15144	USSR	1 AUG		1435.6	5.4	35785	35768		
1984 078F		15181	USSR	1 AUG		1435.4	5.3	35878	35666		
1984 079A	COSMOS 1586	15147	USSR	2 AUG		718.9	64.9	36902	3506		
1984 079D		15156	USSR	2 AUG		705.7	65.1	36454	3302		
1984 080A	GMS 3	15152	JAPAN	2 AUG		1435.9	2.9	35790	35775		
1984 080C		15157	JAPAN	2 AUG		239.4	28.8	12579	208		
1984 081A	ECS 2	15158	ESA	4 AUG		1436.2	1.2	35812	35765		
1984 081B	TELECOM 1A	15159	FRANCE	4 AUG		1436.1	1.2	35790	35783		
1984 081D		15166	ESA	4 AUG		598.2	7.2	33614	663		
1984 081E		20674	ESA	4 AUG		600.6	7.2	33695	708		
1984 083B -	083AX		USSR	7 AUG	SEE NOTE			41*			41*
1984 084A	COSMOS 1589	15171	USSR	8 AUG		115.9	82.6	1500	1490		
1984 084B		15172	USSR	8 AUG		115.8	82.6	1498	1487		
1984 085A	MOLNIYA 1-61	15182	USSR	10 AUG		716.2	64.2	38961	1313		
1984 085D		15188	USSR	10 AUG		730.9	64.5	39699	1302		
1984 088A	CCE	15199	US	16 AUG		939.4	2.7	49725	1066		
1984 088B	IRM	15200	FRG	16 AUG		2653.4	27.0	113818	402		
1984 088C	UKS	15201	UK	16 AUG		2659.6	26.9	113417	1002		
1984 088D		15202	US	16 AUG		133.9	28.9	4038	547		
1984 088E		15205	US	15 AUG		133.0	28.8	3956	550		
1984 088F		15206	US	16 AUG		921.7	26.8	49470	518		
1984 088G		19008	US	16 AUG		131.9	28.7	3857	550		
1984 088H		19599	US	16 AUG		133.0	28.7	3957	552		
1984 089A	MOLNIYA 1-62	15214	USSR	24 AUG		735.2	63.9	39891	1327		
1984 089D		15223	USSR	24 AUG		738.9	64.0	39555	1838		
1984 090A	EKRAN 13	15219	USSR	24 AUG		1499.7	6.5	37084	36960		
1984 090F		17875	USSR	24 AUG		1422.1	6.2	35592	35432		
1984 091A		15226	US	28 AUG		ELEMENTS NOT AVAILABLE					
1984 091B		15227	US	28 AUG		ELEMENTS NOT AVAILABLE					
1984 093B	SBS 4	15235	US	31 AUG		1436.0	0.0	35795	35778		35*
1984 093C	SYNCOM IV-2	15236	US	31 AUG		1435.9	3.1	35788	35781		35*
1984 093D	TELSTAR 3C	15237	US	1 SEP		1436.1	0.0	35794	35778		35*
1984 093E		15244	US	31 AUG		260.1	27.3	13916	323		
1984 093F		15245	US	31 AUG		600.3	22.8	34047	340		
1984 093G		15246	US	1 SEP		643.0	24.7	36263	336		
1984 095A	COSMOS 1593	15259	USSR	4 SEP		675.7	64.8	19177	19081		
1984 095B		15260	USSR	4 SEP		677.2	64.7	19190	19142		
1984 095C		15261	USSR	4 SEP		675.7	64.7	19178	19080		
1984 095F		15264	USSR	4 SEP		675.9	64.7	19171	19096		
1984 095G		15265	USSR	4 SEP		328.6	52.1	18410	382		
1984 095H		15266	USSR	4 SEP		331.7	51.9	18615	374		
1984 096A		15267	USSR	7 SEP		719.4	67.6	36779	3607		
1984 096D	COSMOS 1596	15270	USSR	7 SEP		703.2	67.5	36278	3353		
1984 097A		15271	US	8 SEP		718.0	63.5	20411	19952		
1984 097B		15272	US	8 SEP		369.2	63.7	20437	902		

INTER-NATIONAL DESIGNATION			NAME		OBJECTS IN ORBIT			CATALOG NUMBER			SOURCE			LAUNCH			PERIOD MINUTES			INCL- NATION			APOGEE KM.			PERIGEE KM.			TRANSMITTING FREQ.(MHZ)			NOTES		
1984 LAUNCHES (CONT.)																																		
1984	100A		COSMOS 1598			15292	USSR	13 SEP	1436.1	0-0	35796	35778																						
1984	100B					15293	USSR	13 SEP	104.8	82.9	1000	965																						
1984	101A		GALAXY 3			15308	US	21 SEP	1436.2	0.1	35794	35781																						
1984	104B - 104AF						USSR	27 SEP	SEE NOTE	40*																								
1984	105A		COSMOS 1602			15331	USSR	28 SEP	97.1	82.5	633	605																						
1984	105B					15332	USSR	28 SEP	97.4	82.5	650	619																						
1984	106A		COSMOS 1603			15333	USSR	28 SEP	101.9	71.0	864	830																						
1984	105C					15335	USSR	28 SEP	101.4	66.5	839	813																						
1984	106F					15338	USSR	28 SEP	101.7	66.6	849	829																						
1984	106G					17358	USSR	28 SEP	101.9	71.0	849	843																						
1984	107A		COSMOS 1604			15350	USSR	4 OCT	717.7	67.3	36621	3728																						
1984	107D					15355	USSR	4 OCT	708.1	67.3	36316	3557																						
1984	109B		ERBS			15354	US	5 OCT	96.3	56.9	586	576																						
1984	109A		COSMOS 1605			15359	USSR	11 OCT	104.7	82.9	1015	945																						
1984	109D					15360	USSR	11 OCT	104.6	82.9	1009	944																						
1984	110A					15362	US	12 OCT	108.9	89.9	1197	1151																						
1984	111A		COSMOS 1606			15369	USSR	18 OCT	97.0	82.5	629	601																						
1984	111B					15370	USSR	18 OCT	97.4	82.5	649	616																						
1984	112A		COSMOS 1607			15378	USSR	31 OCT	104.1	65.0	984	918																						
1984	112C					15503	USSR	31 OCT	103.8	65.0	961	911																						
1984	113B		ANIK D2			15383	CANADA	9 NOV	1436.0	0-0	35793	35779																						
1984	113C		SYNCOM IV-1			15384	US	10 NOV	1436.0	2.1	35870	35701																						
1984	113D					15387	US	9 NOV	619.5	25.2	34970	415																						
1984	113E					15390	US	10 NOV	261.8	27.0	14029	323																						
1984	114A		SPACENET 2			15385	US	10 NOV	1436.1	0.0	35790	35784																						
1984	114B		MARECS R2			15386	ESA	10 NOV	1436.0	2.6	35798	35776																						
1984	114C					15388	ESA	10 NOV	607.1	7.2	34365	380																						
1984	115A		NATO III-D			15391	NATO	14 NOV	1436.2	0.7	35796	35781																						
1984	115B					15392	US	14 NOV	115.9	21.5	2314	674																						
1984	115C					15402	US	14 NOV	637.4	23.4	35899	411																						
1984	119A		COSMOS 1610			15398	USSR	15 NOV	104.8	82.9	1008	963																						
1984	118B					15399	USSR	15 NOV	104.7	82.9	1003	954																						
1984	122A					15423	US	4 DEC	ELEMENTS NOT AVAILABLE																									
1984	123A		NOAA 9			15427	US	12 DEC	101.8	99.1	858	838																						
1984	123B					15440	US	12 DEC	99.0	99.0	712	706																						
1984	123C					15441	US	12 DEC	97.5	99.0	639	636																						
1984	124A		MOLNIYA 1-63			15429	USSR	14 DEC	718.3	63.5	38901	1478																						
1984	124H					15439	USSR	14 DEC	733.4	53.9	39437	1686																						
1984	125A		VEGA 1			15432	USSR	15 DEC	HELIOCENTRIC ORBIT																									
1984	125D					15447	USSR	15 DEC	HELIOCENTRIC ORBIT																									
1984	128A		VEGA 2			15449	USSR	21 DEC	HELIOCENTRIC ORBIT																									
1984	128B					15450	USSR	21 DEC	HELIOCENTRIC ORBIT																									
1984	129A					15453	US	22 DEC	ELEMENTS NOT AVAILABLE																									
1984	129B					15454	US	22 DEC	ELEMENTS NOT AVAILABLE																									
1985 LAUNCHES																																		
1985	001A		MS-T5			15464	JAPAN	7 JAN	HELIOCENTRIC ORBIT																									
1985	001B					15465	JAPAN	7 JAN	HELIOCENTRIC ORBIT																									
1985	003A		COSMOS 1617			15469	USSR	15 JAN	114.0	82.6	1412	1410																						

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHz)	NOTES
1985 LAUNCHES (CONT.)										
1985 0032	COSMOS 1618	15470	USSR	15 JAN	114.0	82.6	1411	1404		
1985 003C	COSMOS 1619	15471	USSR	15 JAN	113.7	82.6	1411	1380		
1985 003D	COSMOS 1620	15472	USSR	15 JAN	113.8	82.6	1411	1387		
1985 003E	COSMOS 1621	15473	USSR	15 JAN	113.8	82.6	1411	1392		
1985 003F	COSMOS 1622	15474	USSR	15 JAN	113.9	82.6	1411	1397		
1985 003G		15475	USSR	15 JAN	114.7	82.6	1470	1410		
1985 004A	MOLNIYA 3-23	15476	USSR	16 JAN	717.6	64.7	39792	1555		
1985 004D		15481	USSR	16 JAN	731.7	65.1	39309	1730		
1985 006A	COSMOS 1624	15482	USSR	17 JAN	100.6	74.0	799	777		
1985 006B		15483	USSR	17 JAN	100.5	74.0	796	765		
1985 006C		15490	USSR	17 JAN	100.3	74.0	778	771		
1985 006D		15491	USSR	17 JAN	100.8	74.0	809	780		
1985 007A	GORIZONT 11	15494	USSR	18 JAN	1436.1	4.9	35795	35780		
1985 007D		15487	USSR	18 JAN	1397.7	4.7	35133	34929		
1985 007F		15489	USSR	19 JAN	402.9	47.1	23165	219		
1985 009A	COSMOS 1626	15494	USSR	24 JAN	96.9	82.5	626	598		
1985 009B		15495	USSR	24 JAN	97.4	82.5	647	618		
1985 010B		15543	US	24 JAN	ELEMENTS NOT AVAILABLE					
1985 010C		15544	US	24 JAN	ELEMENTS NOT AVAILABLE					
1985 010D		15545	US	24 JAN	ELEMENTS NOT AVAILABLE					
1985 011A	COSMOS 1627	15505	USSR	1 FEB	104.8	82.9	1015	952		
1985 011B		15506	USSR	1 FEB	104.7	82.9	1005	952		
1985 013A	METEOR 2-12	15516	USSR	6 FEB	103.9	82.5	957	931		
1985 013B		15517	USSR	6 FEB	103.9	82.5	956	933		
1985 014A		15546	US	8 FEB	ELEMENTS NOT AVAILABLE					
1985 014B		15547	US	8 FEB	ELEMENTS NOT AVAILABLE					
1985 015A	ARARSAT 1	15560	SA	8 FEB	1437.8	0.1	35912	35729		
1985 015B	SATS 1	15561	BRAZIL	8 FEB	1436.2	0.1	35801	35776		
1985 015C		15562	ESA	8 FEB	586.0	7.2	33332	304		
1985 016A	COSMOS 1629	15574	USSR	21 FEB	1437.6	5.0	35832	35800		
1985 016F		15581	USSR	21 FEB	1448.6	5.0	36151	35911		
1985 020A	COSMOS 1633	15592	USSR	5 MAR	97.0	82.5	623	602		
1985 021A	GEOSAT	15595	US	13 MAR	100.4	108.0	781	778		
1985 021B		15596	US	13 MAR	100.3	108.1	798	746		
1985 021C		15613	US	13 MAR	95.8	108.5	581	537		
1985 021D		15614	US	13 MAR	99.4	108.3	745	718		
1985 021E		15615	US	13 MAR	100.4	107.8	820	739		
1985 021F		15616	US	13 MAR	100.5	107.5	854	709		
1985 022A	COSMOS 1634	15597	USSR	14 MAR	104.7	82.9	1007	955		
1985 022B		15598	USSR	14 MAR	104.6	82.9	991	961		
1985 023A	COSMOS 1635	15617	USSR	21 MAR	115.8	74.1	1510	1471		
1985 023B	COSMOS 1636	15618	USSR	21 MAR	115.6	74.1	1492	1472		
1985 023C	COSMOS 1637	15619	USSR	21 MAR	115.4	74.1	1485	1463		
1985 023D	COSMOS 1638	15620	USSR	21 MAR	115.2	74.1	1478	1454		
1985 023E	COSMOS 1639	15621	USSR	21 MAR	115.1	74.1	1478	1438		
1985 023F	COSMOS 1640	15622	USSR	21 MAR	114.9	74.1	1477	1424		
1985 023G	COSMOS 1641	15623	USSR	21 MAR	114.8	74.1	1478	1409		
1985 023H	COSMOS 1642	15624	USSR	21 MAR	114.6	74.1	1476	1396		
1985 023J		15625	USSR	21 MAR	118.0	74.1	1709	1474		
1985 024A	SKRAN 14	15626	USSR	22 MAR	1519.1	6.1	37450	37340		

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INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1985 LAUNCHES (CONT.)											
1985 0240		15630	USSR	22 MAR	1422.6	5.8	35594	35460			
1985 025A	INTELSAT VF10	15629	ITSO	22 MAR	1436.1	0.0	35809	35764			
1985 025B		15631	US	22 MAR	385.1	23.0	22094	217			
1985 028B	ANIK C1	15642	CANADA	13 APR	1436.1	0.0	35797	35778			35*
1985 028C	SYNCOM IV-3	15643	US	12 APR	1436.1	2.4	35808	35767			35*
1985 028D		15644	US	13 APR	596.3	23.4	33862	315			
1985 028E		16229	US	12 APR	276.1	26.9	14983	349			
1985 0300	- 030AA		USSR	13 APR	SEE NOTE		43*				43*
1985 033A	PROGNOZ 10	15661	USSR	26 APR	5783.7	76.8	194734	5975			
1985 0330		15664	USSR	26 APR	5784.8	65.0	200315	420			
1985 035A	GSTAR 1	15677	US	8 MAY	1436.0	0.0	35788	35785			
1985 035B	TELECOM 1B	15678	FRANCE	8 MAY	1436.2	3.6	36159	35419			
1985 035C		15679	ESA	8 MAY	487.3	7.1	28017	250			
1985 035D		15680	ESA	8 MAY	304.6	6.7	16442	795			
1985 037A	COSMOS 1650	15697	USSR	17 MAY	675.7	64.8	19177	19081			
1985 037B	COSMOS 1651	15698	USSR	17 MAY	675.6	64.8	19144	19110			
1985 037C	COSMOS 1652	15699	USSR	17 MAY	675.8	64.8	19151	19112			
1985 037F		15702	USSR	17 MAY	675.0	64.8	19153	19070			
1985 037G		15714	USSR	17 MAY	334.4	52.0	18783	379			
1985 037H		15715	USSR	17 MAY	331.1	52.1	18631	319			
1985 040A	MOLNIYA 3-24	15738	USSR	29 MAY	717.7	63.9	39322	1031			
1985 040D		15741	USSR	29 MAY	732.2	64.0	39674	1391			
1985 041A	COSMOS 1655	15751	USSR	30 MAY	105.0	82.9	1014	972			
1985 041B		15752	USSR	30 MAY	104.9	83.0	1008	968			
1985 042A	COSMOS 1656	15755	USSR	30 MAY	101.5	71.1	852	803			
1985 042D		15772	USSR	30 MAY	101.4	71.1	851	801			
1985 042E		15773	USSR	30 MAY	101.1	66.6	837	785			
1985 042F		15774	USSR	30 MAY	101.2	66.6	831	803			
1985 042G		18764	USSR	30 MAY	100.1	66.6	843	686			
1985 042H		18765	USSR	30 MAY	101.3	66.6	826	811			
1985 042J		18766	USSR	30 MAY	102.7	66.6	943	925			
1985 042K		18767	USSR	30 MAY	104.4	66.6	1099	830			
1985 042L		18819	USSR	30 MAY	102.0	66.6	896	810			
1985 045A	COSMOS 1658	15808	USSR	11 JUN	717.7	65.4	37076	3273			
1985 045D		15811	USSR	11 JUN	709.3	65.8	36732	3201			
1985 047A	COSMOS 1660	15821	USSR	14 JUN	116.0	73.6	1522	1480			
1985 047B		15822	USSR	14 JUN	116.0	73.6	1518	1480			
1985 048B	MORELOS A	15824	MEXICO	17 JUN	1436.1	0.0	35803	35771			35*
1985 048C	ARABSAT 1B	15825	SA	18 JUN	1436.1	0.2	35814	35758			35*
1985 048D	TELSTAR 3D	15826	US	19 JUN	1436.1	0.1	35793	35781			35*
1985 048F		15832	US	17 JUN	626.7	25.2	35317	442			
1985 048G		15836	US	18 JUN	619.5	26.7	34964	423			
1985 048H		15837	US	18 JUN	652.5	25.2	36710	375			
1985 049A	COSMOS 1661	15827	USSR	18 JUN	718.8	66.9	37088	3314			
1985 049D		15830	USSR	18 JUN	724.8	67.5	37533	3169			
1985 055A	INTELSAT VA F11	15873	ITSO	30 JUN	1436.2	0.0	35802	35774			
1985 055B		15874	US	30 JUN	551.5	22.8	31511	285			
1985 056A	GIOTTO	15875	ESA	2 JUL	HELIOCENTRIC ORBIT						
1985 056B		15876	ESA	2 JUL	498.2	4.1	28592	268			
1985 056C		17255	ESA	2 JUL	598.8	8.5	33993	314			

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1985 LAUNCHES (CONT.)										
1985 0560		17325	ESA	2 JUL	561.7	7.5	32020	323		
1985 056E		17332	ESA	2 JUL	450.4	7.7	25791	379		
1985 058A	COSMOS 1666	15889	USSR	8 JUL	97.0	92.5	632	600		
1985 058B		15890	USSR	8 JUL	97.4	82.5	652	617		
1985 058C		19241	USSR	8 JUL	96.8	82.5	619	586		
1985 061A	MOLNIYA 3-25	15909	USSR	17 JUL	717.6	64.5	39295	1049		
1985 061D		15916	USSR	17 JUL	737.8	64.4	40424	915		
1985 064A	COSMOS 1670	15930	USSR	1 AUG	104.1	64.9	986	914		
1985 066A	NNSS 30300	15935	US	3 AUG	107.9	89.9	1258	996		
1985 066B	NNSS 30240	15936	US	3 AUG	107.9	89.9	1257	998		
1985 066C		15938	US	3 AUG	107.9	89.9	1258	998		
1985 066D		15950	US	3 AUG	106.8	89.9	1191	964		
1985 066E		15951	US	3 AUG	107.0	89.9	1201	969		
1985 066F		16020	US	3 AUG	107.5	90.2	1220	1005		
1985 066G		17164	US	3 AUG	108.2	89.3	1297	986		
1985 069A	COSMOS 1674	15944	USSR	8 AUG	97.0	82.5	627	600		
1985 069B		15945	USSR	8 AUG	97.4	82.5	647	618		
1985 070A	RADUGA 16	15946	USSR	8 AUG	1437.6	4.6	35860	35769		
1985 070F		15963	USSR	8 AUG	1472.3	4.8	36555	36430		
1985 071A	COSMOS 1675	15952	USSR	12 AUG	717.3	67.6	37285	3043		
1985 071D		15955	USSR	12 AUG	708.3	67.4	36869	3015		
1985 073A	PLANET A	15967	JAPAN	18 AUG	HELIOCENTRIC ORBIT					
1985 073C		15969	JAPAN	18 AUG	HELIOCENTRIC ORBIT					
1985 074A	MOLNIYA 1-64	15977	USSR	22 AUG	717.7	64.8	38848	1503		
1985 074D		15983	USSR	22 AUG	732.4	65.1	39581	1491		
1985 075A	COSMOS 1677	15986	USSR	23 AUG	103.9	64.7	978	903		
1985 076B	AUSSAT 1	15993	AUSTRL	27 AUG	1436.2	0.0	35795	35780		35*
1985 076C	ASC 1	15994	US	27 AUG	1436.0	0.0	35794	35771		35*
1985 076D	SYNCOM IV-4	15995	US	29 AUG	1438.0	2.1	35850	35802		35*
1985 076E		15996	US	27 AUG	631.6	25.9	35570	444		
1985 076F		16001	US	29 AUG	278.7	27.4	15147	365		
1985 076G		16007	US	29 AUG	629.6	26.5	35477	435		
1985 077K		16389	USSR	29 AUG	104.8	71.0	1123	843		
1985 077L		18608	USSR	29 AUG	100.3	74.1	784	762		
1985 077M		16390	USSR	29 AUG	105.1	71.0	1153	841		
1985 077N		16391	USSR	29 AUG	104.7	71.0	1124	839		
1985 079A	COSMOS 1680	16392	USSR	29 AUG	104.9	71.0	1139	840		
1985 079B		16011	USSR	4 SEP	100.6	74.1	799	775		
1985 079C		16012	USSR	4 SEP	100.5	74.1	792	769		
1985 079C		17754	USSR	4 SEP	100.7	74.0	808	777		
1985 082B	- 082Z		USSR	19 SEP	SEE NOTE		42*			42*
1985 084A	COSMOS 1684	16064	USSR	24 SEP	717.9	64.3	36872	3489		
1985 084D		16070	USSR	24 SEP	706.0	64.9	36464	3305		
1985 087A	INTELSAT VA F-12	16101	ITSO	29 SEP	1436.1	0.0	35804	35770		
1985 087B		16102	US	29 SEP	514.9	23.1	29504	296		
1985 088A	COSMOS 1687	16103	USSR	30 SEP	719.0	66.4	36843	3569		
1985 088D		16106	USSR	30 SEP	703.6	66.7	36429	3222		
1985 090A	COSMOS 1689	16110	USSR	3 OCT	95.5	97.7	570	513		
1985 090B		16111	USSR	3 OCT	96.5	97.7	629	553		
1985 091A	MOLNIYA 3-26	16112	USSR	3 OCT	718.5	64.7	37994	2393		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1985 LAUNCHES (CONT.)										
1985 091D		16125	USSR	3 OCT	734.0	64.8	38581	2571		35*
1985 092B		16116	US	3 OCT	ELEMENTS NOT AVAILABLE					35*
1985 092C		16117	US	3 OCT	ELEMENTS NOT AVAILABLE					
1985 092D		16118	US	3 OCT	ELEMENTS NOT AVAILABLE					
1985 092E		16119	US	3 OCT	ELEMENTS NOT AVAILABLE					
1985 093A		16129	US	9 OCT	713.0	64.2	20515	19848		
1985 093B		16137	US	9 OCT	368.2	63.7	20290	987		
1985 094A	COSMOS 1690	16138	USSR	9 OCT	113.7	82.6	1413	1379		
1985 094B	COSMOS 1691	16139	USSR	9 OCT	114.0	82.6	1412	1410		
1985 094C	COSMOS 1692	16140	USSR	9 OCT	113.8	82.6	1413	1387		
1985 094D	COSMOS 1693	16141	USSR	9 OCT	113.8	82.6	1413	1391		
1985 094E	COSMOS 1694	16142	USSR	9 OCT	113.9	82.6	1414	1395		
1985 094F	COSMOS 1695	16143	USSR	9 OCT	114.0	82.6	1413	1403		
1985 094G		16144	USSR	9 OCT	114.7	82.6	1467	1413		
1985 094K		16266	USSR	9 OCT	114.0	82.6	1424	1394		
1985 094L		16267	USSR	9 OCT	113.0	82.6	1409	1315		
1985 094M		16268	USSR	9 OCT	114.9	82.7	1513	1391		
1985 094N		16269	USSR	9 OCT	114.1	82.6	1422	1403		
1985 094P		16270	USSR	9 OCT	113.7	82.7	1601	1191		
1985 094Q		16271	USSR	9 OCT	114.0	82.6	1413	1404		
1985 094R		17168	USSR	9 OCT	113.4	82.6	1416	1349		
1985 094S		17777	USSR	9 OCT	113.1	82.6	1400	1340		
1985 094U		18777	USSR	9 OCT	114.0	82.6	1412	1410		
1985 097A	COSMOS 1697	16181	USSR	22 OCT	101.9	71.0	854	843		
1985 097B		16182	USSR	22 OCT	101.7	71.0	846	833		
1985 098A	COSMOS 1698	16183	USSR	22 OCT	717.9	65.6	36815	3546		
1985 098D		16186	USSR	22 OCT	707.9	65.8	36466	3400		
1985 099A	MOLNIYA 1-65	16187	USSR	23 OCT	718.0	64.7	39218	2149		
1985 099E		16197	USSR	23 OCT	698.0	64.6	37276	2099		
1985 100A	METEOR 3	16191	USSR	24 OCT	109.3	82.5	1208	1178		
1985 100B		16194	USSR	24 OCT	110.2	82.6	1247	1220		
1985 102A	COSMOS 1700	16199	USSR	25 OCT	1435.9	4.3	35812	35751		
1985 102D		16214	USSR	25 OCT	1431.0	4.2	35789	35582		
1985 103A	MOLNIYA 1-66	16220	USSR	28 OCT	717.7	64.2	39477	874		
1985 103D		16223	USSR	28 OCT	701.0	64.3	38479	1044		
1985 105A	COSMOS 1701	16235	USSR	9 NOV	718.1	67.2	37388	2984		
1985 105D		16243	USSR	9 NOV	706.2	67.2	36880	2899		
1985 107A	RADUGA 17	16250	USSR	15 NOV	1436.0	4.4	35806	35764		
1985 107F		16339	USSR	15 NOV	1477.0	4.5	36685	36483		
1985 108A	COSMOS 1703	16262	USSR	22 NOV	97.0	82.5	630	603		
1985 108B		16263	USSR	22 NOV	97.4	82.5	650	621		
1985 109B	MORELOS B	16274	MEXICO	27 NOV	1435.1	0.0	35790	35784		35*
1985 109C	AUSSAT 2	16275	AUS	27 NOV	1436.2	0.1	35797	35778		35*
1985 109D	SATCOM KU2	16276	US	28 NOV	1436.2	0.0	35797	35779		35*
1985 109F		16293	US	27 NOV	639.5	25.3	36108	312		
1985 109G		16294	US	27 NOV	635.8	25.6	35913	318		
1985 109H		16295	US	28 NOV	617.8	25.9	34975	326		
1985 110A	COSMOS 1704	16291	USSR	28 NOV	104.8	82.9	1005	960		
1985 110B		16292	USSR	28 NOV	104.6	82.9	996	953		
1985 113A	COSMOS 1707	16326	USSR	12 DEC	97.0	82.5	630	604		

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1985 LAUNCHES (CONT.)										
1985 113B		16327	USSR	12 DEC	97.4	82.5	648	620		
1985 116A	COSMOS 1709	16368	USSR	19 DEC	104.8	82.9	1008	958		
1985 116B		16369	USSR	19 DEC	104.6	82.9	1000	952		
1985 117A	MULNIYA 3-27	16393	USSR	24 DEC	712.8	63.7	38484	1625		
1985 117F		16402	USSR	24 DEC	732.6	63.6	39236	1846		
1985 118A	COSMOS 1710	16396	USSR	24 DEC	675.7	66.1	19147	19111		
1985 118B	COSMOS 1711	16397	USSR	24 DEC	675.7	66.1	19153	19105		
1985 118C	COSMOS 1712	16398	USSR	24 DEC	676.3	66.1	19129	19134		
1985 118F		16404	USSR	24 DEC	675.5	66.1	18896	19119		
1985 118K		16445	USSR	24 DEC	340.3	65.3	18896	641		
1985 118L		16446	USSR	24 DEC	340.4	65.3	18885	653		
1985 119A	METEOR 2-13	16408	USSR	26 DEC	103.9	82.5	955	934		
1985 119B		16409	USSR	26 DEC	104.0	82.5	955	935		
1985 LAUNCHES										
1986 002A	COSMOS 1716	16449	USSR	9 JAN	115.5	74.0	1499	1462		
1986 002B	COSMOS 1717	16450	USSR	9 JAN	115.8	74.0	1511	1473		
1986 002C	COSMOS 1718	16451	USSR	9 JAN	115.6	74.0	1494	1472		
1986 002D	COSMOS 1719	16452	USSR	9 JAN	115.3	74.0	1482	1453		
1986 002E	COSMOS 1720	16453	USSR	9 JAN	115.1	74.0	1482	1438		
1986 002F	COSMOS 1721	16454	USSR	9 JAN	115.0	74.0	1481	1425		
1986 002G	COSMOS 1722	16455	USSR	9 JAN	114.8	74.0	1481	1410		
1986 002H	COSMOS 1723	16456	USSR	9 JAN	114.6	74.0	1479	1398		
1986 002J		16457	USSR	9 JAN	117.9	74.0	1693	1480		
1986 003B	SATCOM KUI	16482	US	12 JAN	1436.2	0.1	35795	35781		
1986 003C		16483	US	12 JAN	617.1	27.4	34925	337		
1986 005A	COSMOS 1725	16493	USSR	17 JAN	104.8	82.9	999	966		
1986 005B		16494	USSR	17 JAN	104.6	82.9	990	962		
1986 005A	COSMOS 1726	16495	USSR	17 JAN	96.9	82.5	625	599		
1986 005B		16496	USSR	17 JAN	97.4	82.5	648	617		
1986 007A	RADUGA 18	16497	USSR	17 JAN	1457.3	4.3	36515	35836		
1986 007E		16501	USSR	17 JAN	647.7	47.0	36585	252		
1986 007F		16870	USSR	17 JAN	1472.4	4.4	36639	36348		
1986 008A	COSMOS 1727	16510	USSR	23 JAN	104.8	82.9	1013	955		
1986 008B		16511	USSR	23 JAN	104.7	82.9	1002	956		
1986 010A	PRC 19	16526	PRC	1 FEB	1435.6	3.1	35783	35770		
1986 010B		16528	PRC	1 FEB	627.7	30.8	35328	484		
1986 011A	COSMOS 1729	16527	USSR	1 FEB	717.7	63.8	37267	3081		
1986 011F		16533	USSR	1 FEB	705.7	64.3	36714	3043		
1986 014A		16591	US	9 FEB	ELEMENTS NOT AVAILABLE					
1986 014B		16592	US	9 FEB	ELEMENTS NOT AVAILABLE					
1986 014C		16622	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1986 014D		16623	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1986 014E		16624	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1986 014F		16625	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1986 014G		16630	US	9 FEB	CURRENT ELEMENTS NOT MAINTAINED					
1986 014H		16631	US	9 FEB	ELEMENTS NOT AVAILABLE					
1986 015A	COSMOS 1732	16593	USSR	11 FEB	116.0	73.6	1523	1478		
1986 015B		16594	USSR	11 FEB	115.9	73.6	1518	1477		

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1985 LAUNCHES (CONT.)										
1986 016A	RS-28	16597	JAPAN	12 FEB	1436.1	0.9	35800	35772		
1986 016C		16600	JAPAN	12 FEB	424.8	28.2	24453	230		
1986 017A	MIR	16609	USSR	19 FEB	92.2	51.6	381	379		
1986 017B	- 017DU		USSR	19 FEB	SEE NOTE	47*				47*
1986 018A	COSMOS 1733	16611	USSR	19 FEB	97.0	82.5	626	599		
1986 018B		16612	USSR	19 FEB	97.4	82.5	647	617		
1986 019A	SPOT 1	16613	FRANCE	22 FEB	101.3	98.7	823	821		
1986 019B	VIKING	15614	SWEDEN	22 FEB	261.6	98.7	13522	818		
1986 019C	- 019VL		ESA	22 FEB	SEE NOTE	45*				45*
1986 022C		16863	USSR	13 MAR	89.5	51.6	253	244		
1986 024A	COSMOS 1736	16647	USSR	21 MAR	104.4	65.0	998	932		
1986 024B	- 024AF		USSR	21 MAR	SEE NOTE	44*				44*
1986 026A	GSTAR 2	16649	US	23 MAR	1435.0	0.0	35783	35785		
1986 026B	SPTS 2	16650	BRAZIL	28 MAR	1436.1	0.0	35793	35781		
1986 026C		16657	ESA	28 MAR	651.5	6.9	36594	440		
1986 026E		17253	ESA	28 MAR	541.8	8.4	30751	522		
1985 026F		17254	ESA	23 MAR	539.6	8.1	30640	516		
1986 027A	COSMOS 1738	16667	USSR	4 APR	1436.1	4.1	35851	35722		
1986 027F		16676	USSR	4 APR	1474.1	4.2	36695	36357		
1986 030A	COSMOS 1741	16681	USSR	18 APR	100.6	74.0	802	775		
1986 030B		16682	USSR	18 APR	100.5	74.0	792	771		
1986 030C		17842	USSR	18 APR	100.8	74.0	812	781		
1986 030D		17843	USSR	18 APR	100.8	74.0	809	782		
1986 030E		18274	USSR	18 APR	100.2	74.1	800	739		
1986 030F		18526	USSR	18 APR	100.3	74.1	777	771		
1986 030G		18681	USSR	18 APR	100.8	74.0	811	783		
1986 030H		19235	USSR	18 APR	104.0	74.0	949	942		
1985 031A	MOLNIYA 3-28	16683	USSR	18 APR	717.8	65.2	38331	2025		
1986 031D		16686	USSR	18 APR	733.4	65.0	38953	2171		
1986 034A	COSMOS 1743	16719	USSR	15 MAY	97.0	82.5	631	600		
1986 034B		16720	USSR	15 MAY	97.4	82.6	651	617		
1986 037A	COSMOS 1745	16727	USSR	23 MAY	104.8	83.0	1008	960		
1986 037B		16728	USSR	23 MAY	104.6	83.0	997	957		
1986 038A	EKRAN 15	16729	USSR	24 MAY	1491.6	5.0	36922	36809		
1986 038D		16732	USSR	24 MAY	1420.6	4.7	35568	35393		
1986 038E		16733	USSR	24 MAY	954.4	47.9	13280	559		
1986 039A	METEOR 2-14	16735	USSR	27 MAY	104.0	82.5	955	935		
1986 039B		16736	USSR	27 MAY	104.0	82.5	954	936		
1986 042A	COSMOS 1748	16758	USSR	6 JUN	115.1	74.0	1468	1451		
1986 042B	COSMOS 1749	16759	USSR	6 JUN	114.4	74.0	1467	1391		
1986 042C	COSMOS 1750	16760	USSR	6 JUN	114.6	74.0	1468	1406		
1986 042D	COSMOS 1751	16761	USSR	6 JUN	115.6	74.0	1503	1465		
1986 042E	COSMOS 1752	16762	USSR	6 JUN	115.4	74.0	1494	1466		
1986 042F	COSMOS 1753	15763	USSR	6 JUN	115.3	74.0	1475	1460		
1986 042G	COSMOS 1754	16764	USSR	6 JUN	114.9	74.0	1468	1435		
1985 042H	COSMOS 1755	16765	USSR	6 JUN	114.8	74.0	1468	1421		
1986 042J		16766	USSR	6 JUN	117.7	74.0	1682	1469		
1985 044A	GORIZONT 12	16769	USSR	10 JUN	1435.9	3.7	33793	35774		
1986 044F		16797	USSR	10 JUN	1474.4	3.9	35595	36479		
1986 045A	COSMOS 1758	16791	USSR	12 JUN	97.2	82.5	643	605		

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1986 LAUNCHES (CONT.)										
1986 0468		16792	USSR	12 JUN	97.4	82.5	654	616		
1986 047A	COSMOS 1759	16798	USSR	18 JUN	104.7	82.9	1000	962		
1986 0478		16799	USSR	18 JUN	104.6	82.9	1024	924		
1986 049A	MOLNIYA 3-29	16802	USSR	19 JUN	718.3	65.1	39055	1322		
1986 049U		16805	USSR	19 JUN	733.1	65.1	39807	1299		
1986 050A	COSMOS 1761	16849	USSR	5 JUL	717.5	65.6	36980	3362		
1986 050D		16854	USSR	5 JUL	710.0	65.8	36740	3231		
1986 052A	COSMOS 1763	16860	USSR	16 JUL	100.3	74.0	795	750		
1986 0528		16864	USSR	16 JUL	100.2	74.0	795	745		
1986 052C		16865	USSR	16 JUL	99.5	74.0	755	718		
1986 052D		16866	USSR	16 JUL	99.5	74.0	750	717		
1986 052E		16867	USSR	16 JUL	99.7	74.0	765	725		
1986 055A	COSMOS 1766	16881	USSR	28 JUL	97.1	82.5	635	608		
1986 0558		16882	USSR	28 JUL	97.4	82.5	650	621		
1986 057A	MOLNIYA 1-67	16885	USSR	30 JUL	717.6	64.7	38596	1749		
1986 057D		16889	USSR	30 JUL	731.6	65.0	39299	1735		
1986 061A	EGP	16908	JAPAN	12 AUG	115.7	50.0	1498	1478		
1986 0618	JAS-1	16909	JAPAN	12 AUG	115.7	50.0	1497	1479		
1986 061C		16910	JAPAN	12 AUG	116.9	50.0	1595	1484		
1986 062A	COSMOS 1771	16917	USSR	20 AUG	104.2	65.0	980	929		
1986 062C		17035	USSR	20 AUG	103.9	65.0	957	923		
1986 065A	COSMOS 1774	16922	USSR	28 AUG	717.1	64.9	37658	2665		
1986 065D		16925	USSR	28 AUG	707.0	65.4	37007	2812		
1986 067B	- 067AF		USSR	3 SEP	SEE NOTE	46*				46*
1986 068A	MOLNIYA 1-68	16934	USSR	5 SEP	717.9	64.7	38050	2308		
1986 068D		16939	USSR	5 SEP	731.3	64.7	38611	2406		
1986 070A	COSMOS 1777	16952	USSR	10 SEP	100.6	74.0	803	769		
1986 0708		16953	USSR	10 SEP	100.4	74.0	785	769		
1986 071A	COSMOS 1778	16961	USSR	16 SEP	675.7	64.8	19140	19117		
1986 0718	COSMOS 1779	16962	USSR	16 SEP	675.7	64.8	19139	19119		
1986 071C	COSMOS 1780	16963	USSR	16 SEP	675.7	64.8	19149	19109		
1986 071F		16968	USSR	16 SEP	675.2	64.8	19147	19085		
1986 071G		16984	USSR	16 SEP	327.5	64.4	18536	183		
1986 071H		16985	USSR	16 SEP	323.2	64.5	18277	168		
1986 073A	NOAA 10	16969	US	17 SEP	101.0	98.5	820	800		
1986 0738		16982	US	17 SEP	98.4	98.6	683	679		
1986 074A	COSMOS 1782	16986	USSR	30 SEP	97.2	82.5	636	610		
1986 0748		16987	USSR	30 SEP	97.4	82.5	650	620		
1986 075A	COSMOS 1783	16993	USSR	3 OCT	358.0	63.6	19563	1085		
1986 075D		16996	USSR	3 OCT	357.0	63.7	19531	1052		
1986 078A	COSMOS 1785	17031	USSR	15 OCT	716.8	67.0	37794	2510		
1986 078D		17037	USSR	15 OCT	707.6	67.6	37338	2512		
1986 079A	MOLNIYA 3-30	17038	USSR	20 OCT	717.7	64.9	38525	1925		
1986 079D		17041	USSR	20 OCT	699.0	64.8	37633	1789		
1986 082A	RADUGA 19	17046	USSR	25 OCT	1436.1	3.4	35802	35772		
1986 082D		17052	USSR	25 OCT	637.1	45.9	36043	252		
1986 082E		17053	USSR	25 OCT	101.8	46.4	1551	132		
1986 082F		17065	USSR	25 OCT	1475.5	3.5	36689	36418		
1986 086A	COSMOS 1791	17066	USSR	13 NOV	104.7	82.9	1010	947		
1986 086B		17067	USSR	13 NOV	104.6	82.9	1000	946		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1986 LAUNCHES (CONT.)											
1986 056C		19552	USSR	13 NOV		103.8	92.9	961	919		
1986 086A	POLAR BEAR	17070	US	14 NOV		104.8	89.6	1015	955		
1986 088B		17071	US	14 NOV		104.8	89.6	1013	954		
1986 088C		18426	US	14 NOV		105.1	89.1	1052	944		
1986 088D		18525	US	14 NOV		104.2	39.9	962	955		
1986 089A	MOLNIYA 1-69	17078	USSR	15 NOV		717.8	63.4	38415	1940		
1986 089D		17081	USSR	15 NOV		735.8	63.3	38879	2359		
1986 090A	GORIZONT 13	17083	USSR	18 NOV		1443.8	3.3	36868	36756		
1986 090B		17125	USSR	18 NOV		1443.4	3.2	36008	35850		
1986 090F		17149	USSR	18 NOV		632.9	47.3	35812	268		
1986 091A	COSMOS 1793	17134	USSR	20 NOV		718.5	66.5	37666	2723		
1986 091D		17147	USSR	20 NOV		705.9	67.1	37230	2536		
1986 092A	COSMOS 1794	17136	USSR	21 NOV		115.6	74.0	1497	1464		
1986 092B	COSMOS 1795	17139	USSR	21 NOV		115.4	74.0	1480	1464		
1986 092C	COSMOS 1796	17140	USSR	21 NOV		115.2	74.0	1477	1452		
1986 092D	COSMOS 1797	17141	USSP	21 NOV		115.0	74.0	1470	1441		
1986 092E	COSMOS 1798	17142	USSR	21 NOV		114.9	74.0	1471	1426		
1986 092F	COSMOS 1799	17143	USSR	21 NOV		114.7	74.0	1470	1411		
1986 092G	COSMOS 1800	17144	USSR	21 NOV		114.5	74.0	1471	1396		
1986 092H	COSMOS 1801	17145	USSR	21 NOV		114.4	74.0	1469	1383		
1986 092J		17146	USSR	21 NOV		117.6	74.0	1672	1476		
1986 093A	COSMOS 1802	17159	USSR	24 NOV		104.9	82.9	1020	958		
1986 093B		17160	USSR	24 NOV		104.8	82.9	1013	953		
1986 094A	COSMOS 1803	17177	USSR	2 DEC		115.9	82.6	1500	1495		
1986 094B		17178	USSR	2 DEC		115.9	82.6	1496	1494		
1986 094C		20294	USSR	2 DEC		117.3	83.2	1730	1393		
1986 095A		17181	US	5 DEC		1436.2	0.7	35860	35718		
1986 097A	COSMOS 1805	17191	USSR	10 DEC		97.0	82.5	629	605		
1986 097B		17192	USSR	10 DEC		97.4	82.5	647	619		
1986 098A	COSMOS 1806	17213	USSR	12 DEC		717.2	53.7	37203	3121		
1986 093D		17216	USSR	12 DEC		705.8	64.0	36784	2978		
1986 100A	COSMOS 1808	17239	USSR	17 DEC		105.0	82.9	1015	968		
1986 100B		17240	USSR	17 DEC		104.8	82.9	1009	963		
1986 100C		18545	USSR	17 DEC		104.2	82.9	979	935		
1986 101A	COSMOS 1809	17241	USSR	18 DEC		104.1	82.5	962	938		
1986 101B		17242	USSR	18 DEC		104.1	82.5	961	939		
1986 101C		17268	USSR	18 DEC		103.7	82.6	955	911		
1986 101D		17269	USSR	18 DEC		104.2	82.6	967	943		
1986 101E		17270	USSR	18 DEC		104.0	82.4	949	944		
1986 101F		17271	USSR	18 DEC		103.5	82.4	944	900		
1986 101G		17272	USSR	13 DEC		103.4	82.5	929	905		
1986 101H		17273	USSR	18 DEC		103.3	82.5	924	903		
1986 101J		17274	USSR	18 DEC		104.2	82.5	980	930		
1986 101K		17844	USSR	18 DEC		103.3	82.5	930	902		
1986 101L		18680	USSR	18 DEC		103.4	82.5	929	906		
1986 103A	MOLNIYA 1-70	17264	USSR	26 DEC		717.6	63.7	39404	942		
1986 103D		17267	USSR	26 DEC		698.8	63.9	38526	887		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1987 001A	MEIFOR 2-15	17290	USSR	5 JAN	104.0	82.5	955	936		
1987 001B		17291	USSR	5 JAN	104.0	82.5	954	937		
1987 003A	COSMOS 1612	17295	USSR	14 JAN	97.1	92.5	632	603		
1987 003B		17296	USSR	14 JAN	97.4	92.5	650	619		
1987 004C	- 004HC		USSR	15 JAN	SEE NOTE	48*				48*
1987 006A	COSMOS 1614	17303	USSR	21 JAN	100.5	74.1	801	763		
1987 006B		17304	USSR	21 JAN	100.4	74.1	796	757		
1987 006C		18257	USSR	21 JAN	100.2	74.0	775	762		
1987 008A	MOLNIYA 3-31	17328	USSR	22 JAN	717.7	63.3	38650	1701		
1987 008D		17333	USSR	22 JAN	730.7	63.3	39079	1912		
1987 009A	COSMOS 1816	17359	USSR	29 JAN	104.8	82.9	1007	959		
1987 009B		17360	USSR	29 JAN	104.6	82.9	1004	948		
1987 011A	COSMOS 1818	17369	USSR	1 FEB	100.7	65.0	804	774		
1987 012B		17491	JAPAN	5 FEB	94.8	31.1	563	456		
1987 012K		18927	JAPAN	5 FEB	94.0	30.8	502	434		
1987 015A		17506	US	12 FEB	ELEMENTS NOT AVAILABLE					
1987 015B		17507	US	12 FEB	ELEMENTS NOT AVAILABLE					
1987 017A	COSMOS 1821	17525	USSR	18 FEB	104.8	82.9	1013	957		
1987 017B		17526	USSR	18 FEB	104.6	82.9	1006	947		
1987 018A	WOS-1	17527	JAPAN	19 FEB	103.2	99.0	908	908		
1987 018B		17528	JAPAN	19 FEB	99.8	97.4	874	626		
1987 020A	COSMOS 1823	17535	USSR	20 FEB	116.0	73.6	1523	1476		
1987 020B	- 020D4		USSR	20 FEB	SEE NOTE	49*				49*
1987 022A	GOES 7	17561	US	26 FEB	1436.9	0.0	35857	35748		
1987 022B		17562	US	26 FEB	89.7	21.7	342	179		
1987 022C		17563	US	26 FEB	634.1	17.8	35862	277		
1987 024A	COSMOS 1825	17566	USSR	3 MAR	97.0	82.5	627	603		
1987 024B		17567	USSR	3 MAR	97.4	82.5	647	619		
1987 026A	COSMOS 1827	17582	USSR	13 MAR	113.8	82.6	1409	1393		
1987 026B	COSMOS 1828	17583	USSR	13 MAR	113.7	82.6	1408	1382		
1987 026C	COSMOS 1829	17584	USSR	13 MAR	114.0	82.6	1412	1408		
1987 026D	COSMOS 1830	17585	USSR	13 MAR	113.9	82.6	1409	1404		
1987 026E	COSMOS 1831	17586	USSR	13 MAR	113.8	82.6	1408	1388		
1987 026F	COSMOS 1832	17587	USSR	13 MAR	113.9	82.6	1409	1398		
1987 026G		17588	USSR	13 MAR	114.6	82.6	1467	1409		
1987 027A	COSMOS 1833	17589	USSR	13 MAR	101.9	70.9	954	943		
1987 027B		17590	USSR	18 MAR	101.7	71.0	840	836		
1987 027C		18416	USSR	18 MAR	104.7	71.0	1120	841		
1987 027D		18417	USSR	18 MAR	104.9	71.0	1143	840		
1987 027E		18527	USSR	18 MAR	104.9	71.0	1135	839		
1987 027F		18550	USSR	18 MAR	104.6	71.0	1111	838		
1987 029A	RADUGA 20	17611	USSR	19 MAR	1436.1	3.5	35794	35777		
1987 028D		17705	USSR	19 MAR	1442.1	3.5	36019	35786		
1987 028E		17709	USSR	19 MAR	635.6	47.4	35901	318		
1987 029A	PALAPA 3-2P	17706	INDONESIA	20 MAR	1436.2	0.0	35788	35788		
1987 030A	KVANT 1	17845	USSR	31 MAR	92.2	51.6	391	379		
1987 036A		17913	USSR	24 APR	176.2	64.7	7658	210		
1987 036K		21622	USSR	24 APR	143.6	54.8	4312	1096		
1987 036L		21623	USSR	24 APR	216.9	52.9	10583	473		
1987 036M		21657	USSR	24 APR	149.7	64.8	4953	971		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT					CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES	
1987 LAUNCHES (CONT.)																
1987 036N							21725	USSR	24 APR	149.9	64.7	4856	1079			
1987 038A	COSMOS 1842						17911	USSR	27 APR	97.1	82.5	636	605			
1987 038B							17912	USSR	27 APR	97.4	82.5	652	619			
1987 040A	GORIZONT 14						17969	USSR	11 MAY	1436.3	5.2	35800	35778			
1987 040D							17972	USSR	11 MAY	1397.9	5.0	35094	34975			
1987 040E							18111	USSR	11 MAY	537.1	46.9	30892	128			
1987 040F							18112	USSR	11 MAY	597.7	47.0	34107	144			
1987 041A	COSMOS 1844						17973	USSR	13 MAY	101.9	70.9	852	344			
1987 041B							17974	USSR	13 MAY	101.7	71.0	847	926			
1987 041C							18410	USSR	13 MAY	105.0	71.0	1147	839			
1987 041D							18411	USSR	13 MAY	104.8	71.0	1127	841			
1987 041E							18412	USSR	13 MAY	104.8	71.0	1131	837			
1987 041F							18476	USSR	13 MAY	105.1	71.0	1154	839			
1987 041G							18687	USSR	13 MAY	98.2	71.0	680	661			
1987 043A							17997	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 043B							17998	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 043C							18007	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 043D							18008	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 043E							18009	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 043F							18010	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 043G							18024	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 043H							18025	US	15 MAY	ELEMENTS NOT AVAILABLE						
1987 048A	COSMOS 1849						18083	USSR	4 JUN	717.0	67.0	34204	2111			
1987 048D							18086	USSR	4 JUN	705.2	67.2	37671	2110			
1987 049A	COSMOS 1850						18095	USSR	9 JUN	100.6	74.0	799	776			
1987 049B							18096	USSR	9 JUN	100.5	74.0	795	767			
1987 050A	COSMOS 1851						18103	USSR	12 JUN	718.7	63.4	37817	2583			
1987 050D							18106	USSR	12 JUN	707.4	63.6	37260	2578			
1987 051A	COSMOS 1852						18113	USSR	16 JUN	115.6	74.0	1498	1470			
1987 051B	COSMOS 1853						18114	USSR	16 JUN	115.4	74.0	1481	1470			
1987 051C	COSMOS 1854						18115	USSR	16 JUN	115.3	74.0	1479	1456			
1987 051D	COSMOS 1855						18116	USSR	16 JUN	115.1	74.0	1475	1444			
1987 051E	COSMOS 1856						18117	USSR	16 JUN	114.9	74.0	1475	1429			
1987 051F	COSMOS 1857						18118	USSR	16 JUN	114.8	74.0	1475	1415			
1987 051G	COSMOS 1858						18119	USSR	16 JUN	114.6	74.0	1475	1400			
1987 051H	COSMOS 1859						18120	USSR	16 JUN	114.4	74.0	1474	1385			
1987 051J							18121	USSR	16 JUN	117.8	74.0	1695	1475			
1987 052A	COSMOS 1860						18122	USSR	18 JUN	104.0	65.0	971	921			
1987 052D							18241	USSR	18 JUL	103.7	65.0	951	912			
1987 053A							18123	US	20 JUN	101.7	98.6	649	829			
1987 053B							18127	US	20 JUN	100.2	98.6	775	759			
1987 053C							18128	US	20 JUN	99.3	98.6	726	722			
1987 053D							18154	US	20 JUN	99.1	98.7	719	713			
1987 054A	COSMOS 1861						18129	USSR	23 JUN	104.9	82.9	997	979			
1987 054B							18130	USSR	23 JUN	104.6	82.9	991	964			
1987 054C							18131	USSR	23 JUN	105.0	82.9	1018	970			
1987 055A	COSMOS 1862						18152	USSR	1 JUL	97.2	82.5	640	609			
1987 057A	COSMOS 1864						18160	USSR	6 JUL	104.7	82.9	1003	955			
1987 057B							18161	USSR	6 JUL	104.5	82.9	1000	950			
1987 060A	COSMOS 1867						18187	USSR	10 JUL	100.7	65.0	505	775			

INTER-NATIONAL DESIGNATION		NAME	CATALOG NUMBER	OBJECTS IN ORBIT		PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES		
				SOURCE	LAUNCH								
1987 LAUNCHES (CONT.)													
1987 062A	COSMOS 1869		18214	USSR	16 JUL	97.2	82.5	639	607				
1987 062B			18215	USSR	15 JUL	97.4	82.5	652	619				
1987 065C			19033	USSR	1 AUG	115.4	102.0	1497	1453				
1987 068A	METEOR 2-16		18312	USSR	18 AUG	104.0	92.6	956	937				
1987 068B			18313	USSR	18 AUG	104.0	82.6	955	938				
1987 070A	ETS-V		18316	JAPAN	27 AUG	1436.1	0.2	35808	35769				
1987 073A	EKRAN 16		18328	USSR	4 SEP	1492.5	3.7	36908	36858				
1987 073D			18331	USSR	4 SEP	1420.4	3.5	35576	35380				
1987 073E			18332	USSR	4 SEP	464.0	47.0	26595	356				
1987 074A	COSMOS 1875		18334	USSR	7 SEP	113.7	82.6	1407	1383				
1987 074B	COSMOS 1876		18335	USSR	7 SEP	114.0	82.6	1411	1408				
1987 074C	COSMOS 1877		18336	USSR	7 SEP	113.9	82.6	1408	1405				
1987 074D	COSMOS 1878		18337	USSR	7 SEP	113.9	82.6	1408	1399				
1987 074E	COSMOS 1879		18338	USSR	7 SEP	113.8	82.6	1406	1395				
1987 074F	COSMOS 1880		18339	USSR	7 SEP	113.8	82.6	1408	1389				
1987 074G			18340	USSR	7 SEP	114.6	82.6	1469	1408				
1987 078A	AUSSAT K3		18350	AUSTRL	16 SEP	1436.1	0.0	35795	35779				
1987 078B	ECS 4		18351	ESA	16 SEP	1436.1	0.0	35829	35742				
1987 079A	COSMOS 1883		18355	USSR	16 SEP	675.7	65.8	19148	19110				
1987 079B	COSMOS 1884		18356	USSR	16 SEP	675.7	65.8	19157	19101				
1987 079C	COSMOS 1885		18357	USSR	16 SEP	675.7	65.8	19159	19099				
1987 079F			18360	USSR	16 SEP	674.7	65.8	19136	19071				
1987 079G			18374	USSR	16 SEP	338.7	65.4	18750	687				
1987 079H			18375	USSR	16 SEP	339.6	65.3	18754	736				
1987 080A			18361	US	16 SEP	107.2	90.3	1178	1011				
1987 080B			18362	US	16 SEP	107.2	90.3	1181	1010				
1987 080C			18363	US	16 SEP	107.2	90.3	1180	1012				
1987 080E			18365	US	16 SEP	107.0	90.3	1165	1008				
1987 080F			18530	US	16 SEP	106.3	90.4	1120	992				
1987 080G			18561	US	16 SEP	107.0	90.4	1162	1012				
1987 080H			18562	US	16 SEP	107.8	90.2	1264	985				
1987 084A	COSMOS 1888		18384	USSR	1 OCT	1436.2	2.5	35820	35755				
1987 084E			18388	USSR	1 OCT	129.5	46.7	4108	89				
1987 087A	COSMOS 1891		18402	USSR	14 OCT	104.8	82.9	1022	950				
1987 087B			18403	USSR	14 OCT	104.7	82.9	1022	935				
1987 088A	COSMOS 1892		18421	USSR	20 OCT	97.0	82.5	629	604				
1987 088B			18422	USSR	20 OCT	97.4	82.5	651	620				
1987 090A			18441	US	26 OCT	ELEMENTS NOT AVAILABLE							
1987 091A	COSMOS 1894		18443	USSR	28 OCT	1436.3	2.6	35791	35789				
1987 091D			18446	USSR	28 OCT	1434.8	2.6	35855	35667				
1987 091F			18449	USSR	28 OCT	599.4	46.8	34204	135				
1987 095A	TVSAT 1		18570	FRG	21 NOV	1452.5	2.7	36161	36052				
1987 096A	COSMOS 1897		18575	USSR	26 NOV	1436.3	2.4	35807	35773				
1987 096D			18578	USSR	26 NOV	1431.7	2.3	35781	35621				
1987 097A			18583	US	29 NOV	ELEMENTS NOT AVAILABLE							
1987 097B			18584	US	29 NOV	ELEMENTS NOT AVAILABLE							
1987 098A	COSMOS 1898		18585	USSR	1 DEC	100.6	74.0	801	771				
1987 098B			18586	USSR	1 DEC	100.4	74.0	795	764				
1987 098C			18697	USSR	1 DEC	100.4	74.0	781	771				
1987 098D			18698	USSR	1 DEC	100.8	74.0	807	781				

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1987 LAUNCHES (CONT.)										
1987 100A	RADUGA 21	18631	USSR	10 DEC	1436.2	2.4	35797	35778		
1987 1000		18634	USSR	10 DEC	1392.6	2.3	35000	34862		
1987 100G		21620	USSR	10 DEC	253.7	46.5	13623	171		
1987 101A	COSMOS 1900	18665	USSR	12 DEC	99.2	66.1	754	687		
1987 105A	COSMOS 1903	18701	USSR	21 DEC	718.0	63.3	38608	1756		
1987 105D		18704	USSR	21 DEC	705.1	64.3	37849	1878		
1987 106A	COSMOS 1904	18709	USSR	23 DEC	104.8	82.9	1005	962		
1987 106B		18710	USSR	23 DEC	104.7	82.9	998	958		
1987 109A	EKRAN 17	18715	USSR	27 DEC	1436.4	2.1	35803	35779		
1987 109D		18718	USSR	27 DEC	1428.1	2.0	35892	35368		
1987 109E		18719	USSR	27 DEC	449.3	46.8	25866	241		
1988 LAUNCHES										
1988 001A	COSMOS 1908	18748	USSR	6 JAN	97.1	82.5	633	606		
1988 001B		18749	USSR	6 JAN	97.4	82.5	649	621		
1988 002A	COSMOS 1909	18788	USSR	15 JAN	114.0	82.6	1410	1408		
1988 002B	COSMOS 1910	18789	USSR	15 JAN	113.9	82.6	1409	1403		
1988 002C	COSMOS 1911	18790	USSR	15 JAN	113.9	82.6	1409	1397		
1988 002D	COSMOS 1912	18791	USSR	15 JAN	113.8	82.6	1408	1392		
1988 002E	COSMOS 1913	18792	USSR	15 JAN	113.7	82.6	1408	1387		
1988 002F	COSMOS 1914	18793	USSR	15 JAN	113.7	82.6	1408	1381		
1988 002G		18794	USSR	15 JAN	114.6	82.6	1468	1409		
1988 005A	METEOR 2-17	18820	USSR	30 JAN	103.9	82.5	956	933		
1988 005B		18821	USSR	30 JAN	103.9	82.5	954	933		
1988 006A		18822	US	3 FEB	101.2	98.6	819	803		
1988 006B		18845	US	3 FEB	97.6	98.7	647	644		
1988 006C		18846	US	3 FEB	96.2	98.7	580	570		
1988 006D		18955	US	3 FEB	98.3	98.7	682	675		
1988 005F		18984	US	3 FEB	99.4	98.7	735	726		
1988 012A	CS-3A	18877	JAPAN	19 FEB	1436.1	0.0	35791	35784		
1988 012C		18879	JAPAN	19 FEB	526.7	27.0	29882	571		
1988 012D		20760	JAPAN	19 FEB	436.0	27.7	25116	218		
1988 013A	COSMOS 1922	18881	USSR	26 FEB	716.8	63.7	37487	2818		
1988 013C		18883	USSR	26 FEB	705.8	64.1	37068	2692		
1988 014A	PRC 22	18922	PRC	7 MAR	1435.1	0.0	35792	35782		
1988 016A	COSMOS 1924	18937	USSR	11 MAR	115.7	74.0	1512	1458		
1988 016B	COSMOS 1925	18938	USSR	11 MAR	115.5	74.0	1494	1457		
1988 016C	COSMOS 1926	18939	USSR	11 MAR	115.3	74.0	1477	1458		
1988 016D	COSMOS 1927	18940	USSR	11 MAR	115.1	74.0	1464	1453		
1988 016E	COSMOS 1928	18941	USSR	11 MAR	114.9	74.0	1459	1442		
1988 016F	COSMOS 1929	18942	USSR	11 MAR	114.7	74.0	1458	1427		
1988 016G	COSMOS 1930	18943	USSR	11 MAR	114.6	74.0	1458	1412		
1988 016H	COSMOS 1931	18944	USSR	11 MAR	114.4	74.0	1456	1396		
1988 016J		18945	USSR	11 MAR	117.6	74.0	1684	1462		
1988 016K		19451	USSR	11 MAR	117.5	74.0	1681	1458		
1988 017A	MDLNIYA 1-71	18946	USSR	11 MAR	717.9	63.3	38557	1801		
1988 017D		18949	USSR	11 MAR	695.6	63.3	37586	1667		
1988 018A	SPACENET 3R	18951	US	11 MAR	1436.0	0.0	35789	35784		
1988 018B	TELECOM 1C	18952	FRANCE	11 MAR	1436.1	0.0	35795	35779		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1943 LAUNCHES (CONT.)										
1988 012C		18953	ESA	11 MAR	570.3	7.0	32539	266		
1983 019A	COSMOS 1932	18957	USSR	14 MAR	104.4	65.0	996	932		
1988 019D		19162	USSR	14 MAR	104.0	65.0	965	933		
1983 020A	COSMOS 1933	18958	USSR	15 MAR	97.2	82.5	637	609		
1983 020B		18959	USSR	15 MAR	97.4	82.5	648	619		
1988 021A	IRS-1A	18960	INDIA	17 MAR	103.1	98.9	914	893		
1983 021B		18961	USSR	17 MAR	102.8	98.9	932	947		
1983 022A	MOLNIYA 1-72	18980	USSR	17 MAR	717.9	64.7	38819	1540		
1983 022D		18983	USSR	17 MAR	731.7	64.9	39515	1523		
1983 023A	COSMOS 1934	18985	USSR	22 MAR	104.6	83.0	1006	946		
1983 023B		18986	USSR	22 MAR	104.5	83.0	993	947		
1983 028A		19017	USSR	31 MAR	1436.1	2.1	35808	35765		
1988 028D	GORIZONT 15	19020	USSR	31 MAR	1472.7	2.1	36601	36396		
1988 028E		19036	USSR	31 MAR	640.4	46.4	36344	122		
1983 028F		19037	USSR	31 MAR	621.6	46.4	35148	346		
1988 029A	COSMOS 1937	19038	USSR	5 APR	100.5	74.0	798	762		
1988 029B		19039	USSR	5 APR	100.4	74.0	796	754		
1988 032A	COSMOS 1939	19045	USSR	20 APR	96.6	97.8	612	581		
1988 032B		19046	USSR	20 APR	97.2	97.8	660	569		
1988 033A		19070	US	26 APR	108.5	90.3	1303	1012		
1988 033B		19071	US	26 APR	108.5	90.3	1301	1012		
1988 033C		19072	US	26 APR	108.5	90.3	1303	1013		
1989 033D		19077	US	26 APR	108.1	90.3	1276	1002		
1983 033E		19078	US	26 APR	107.6	90.6	1236	995		
1988 033F		19140	US	26 APR	108.0	90.3	1266	1000		
1988 033G		19181	US	26 APR	109.1	90.1	1379	991		
1988 034A	COSMOS 1940	19073	USSR	26 APR	1430.5	2.1	35777	35576		
1988 034D		19076	USSR	26 APR	1438.8	2.1	35962	35717		
1988 034E		19082	USSR	26 APR	639.3	48.6	36022	387		
1983 034F		19083	USSR	26 APR	649.6	47.3	36714	223		
1983 036A	EKRAN 18	19090	USSR	6 MAY	1513.5	2.9	37362	37213		
1983 036E		19094	USSR	6 MAY	1424.1	2.9	35653	35449		
1983 039A	COSMOS 1943	19119	USSR	15 MAY	101.8	71.0	853	838		
1988 039B		19120	USSR	15 MAY	101.5	71.0	847	815		
1983 039C		19125	USSR	15 MAY	104.6	71.0	1109	839		
1983 039D		19126	USSR	15 MAY	104.7	71.0	1119	839		
1988 039E		19127	USSR	15 MAY	105.1	71.0	1155	941		
1988 039F		19128	USSR	15 MAY	105.1	71.0	1151	843		
1983 040A	INTELSAT 5A F-13	19121	ITSU	17 MAY	1436.1	0.0	35799	35775		
1988 040F		19122	ESA	17 MAY	633.1	7.3	35565	525		
1983 043A	COSMOS 1946	19163	USSR	21 MAY	575.7	64.9	19147	19111		
1983 043B	COSMOS 1947	19164	USSR	21 MAY	575.7	64.9	19140	19118		
1983 043C	COSMOS 1948	19165	USSP	21 MAY	675.7	64.9	19138	19120		
1988 043F		19168	USSR	21 MAY	674.5	64.9	19108	19087		
1983 043G		19169	USSR	21 MAY	339.8	65.4	18760	745		
1983 043H		19170	USSP	21 MAY	339.9	65.4	18740	769		
1983 044A	MOLNIYA 3-32	19189	USSR	26 MAY	717.8	64.6	39759	1596		
1983 044B		19190	USSR	26 MAY	733.0	64.7	39519	1582		
1983 046A	COSMOS 1950	19195	USSR	30 MAY	116.0	73.6	1520	1482		
1983 046B		19196	USSR	30 MAY	116.0	73.6	1515	1482		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1988 LAUNCHES (CONT.)										
1988 050A	COSMOS 1953	19210	USSR	14 JUN	97.2	92.5	643	609		
1988 050B		19211	USSR	14 JUN	97.4	82.5	653	617		
1988 051A	METEOSAT	19215	ESA	15 JUN	1436.4	0.2	35808	35776		
1988 051B	OSCAR 13	19216	US	15 JUN	686.6	56.8	38162	644		
1988 051C	PAS-1	19217	US	15 JUN	1436.1	0.0	35791	35784		
1988 051D		19218	ESA	15 JUN	385.3	10.2	22077	245		
1988 051E		19219	ESA	15 JUN	604.5	10.3	34335	271		
1988 051F		19220	ESA	15 JUN	473.4	10.3	27246	236		
1988 051G		19857	ESA	15 JUN	631.7	6.8	35395	624		
1988 051H		19951	ESA	15 JUN	632.3	8.0	35209	342		
1988 052A		19223	US	16 JUN	108.9	90.0	1197	1151		
1988 053A	COSMOS 1954	19256	USSR	21 JUN	100.6	74.1	798	772		
1988 053B		19257	USSR	21 JUN	100.4	74.1	796	761		
1988 053C		19260	USSR	21 JUN	100.5	74.1	784	775		
1988 053D		19261	USSR	21 JUN	100.5	74.1	789	772		
1988 056A	OKEAN 1	19274	USSR	5 JUL	97.2	82.5	641	609		
1988 056B		19275	USSR	5 JUL	97.5	82.5	654	619		
1988 059A	PHOBOS 1	19281	USSR	7 JUL	TRANS-MARS TRAJECTORY					
1988 058B		19282	USSR	7 JUL	HELIOCENTRIC ORBIT					
1988 059A	PHOBOS 2	19287	USSR	12 JUL	TRANS-MARS TRAJECTORY					
1988 059B		19288	USSR	12 JUL	HELIOCENTRIC ORBIT					
1988 062A	COSMOS 1959	19324	USSR	18 JUL	104.6	83.0	1003	952		
1988 062B		19325	USSR	18 JUL	104.6	83.0	995	951		
1988 063A	INSAT 1C	19330	INDIA	21 JUL	1436.1	2.0	35825	35746		
1988 063B	ECS 5	19331	ESA	21 JUL	1459.8	0.2	37091	35367		
1988 063C		19332	ESA	21 JUL	474.7	7.2	27280	280		
1988 063E		20127	ESA	21 JUL	631.8	8.0	35593	430		
1988 063F		20488	ESA	21 JUL	316.2	7.4	17677	313		
1988 064A	METEOR 3-2	19336	USSR	26 JUL	109.3	82.5	1206	1180		
1988 064B		19337	USSR	26 JUL	109.3	82.5	1205	1180		50*
1988 065B	- 065AF		USSR	29 JUL	SEE NOTE					
1988 065A	COSMOS 1961	19344	USSR	1 AUG	1436.1	1.7	35808	35765		
1988 066D		19347	USSR	1 AUG	1459.7	1.7	36399	36093		
1988 066E		19348	USSR	1 AUG	433.6	46.5	25009	186		
1988 069A	MOLNIYA 1-73	19377	USSR	12 AUG	717.6	64.8	39453	892		
1988 069D		19380	USSR	12 AUG	730.8	65.0	40148	848		
1988 071A	GORIZONT 16	19397	USSR	18 AUG	1440.1	1.7	35929	35799		
1988 071D		19400	USSR	18 AUG	1432.0	1.6	35789	35624		
1988 071E		19401	USSR	18 AUG	600.1	46.7	34244	131		
1988 071F		19402	USSR	18 AUG	292.8	46.8	16266	186		
1988 074A		19419	US	25 AUG	107.3	39.9	1175	1031		
1988 0743		19420	US	25 AUG	107.3	39.9	1172	1032		
1988 074C		19421	US	25 AUG	107.4	39.9	1176	1032		
1988 074D		19515	US	25 AUG	107.2	39.9	1170	1023		
1988 074E		19516	US	25 AUG	107.1	39.9	1163	1024		
1988 074F		19559	US	25 AUG	107.2	39.4	1169	1026		
1988 074G		19577	US	25 AUG	107.2	39.5	1157	1031		
1988 076A	COSMOS 1966	19445	USSR	30 AUG	717.6	64.3	39567	1777		
1988 076D		19448	USSR	30 AUG	705.5	64.6	38045	1763		
1988 077A		19458	US	2 SEP	ELEMENTS NOT AVAILABLE					

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1988 LAUNCHES (CONT.)											
1988 077B		19459	US	7 SEP	ELEMENTS NOT AVAILABLE						
1988 077C		19490	US	2 SEP	ELEMENTS NOT AVAILABLE						
1988 078A		19460	US	5 SEP	ELEMENTS NOT AVAILABLE						
1988 078B		19461	US	5 SEP	ELEMENTS NOT AVAILABLE						
1988 080A	FENGYUN 1	19467	PRC	6 SEP	102.7	99.2		936	834		
1988 080B		19468	PRC	6 SEP	102.7	99.3		895	874		
1988 081A	GSTAR 3	19483	US	8 SEP	1436.0	3.7		35801	35772		
1988 081B	SBS 5	19484	US	8 SEP	1436.1	0.2		35791	35783		
1988 081C		19485	ESA	8 SEP	443.7	7.3		25494	290		
1988 085A	COSMOS 1970	19501	USSR	16 SEP	675.7	65.6		19155	19103		
1988 085B	COSMOS 1971	19502	USSR	16 SEP	675.7	65.5		19160	19098		
1988 085C	COSMOS 1972	19503	USSR	16 SEP	675.7	65.6		19145	19113		
1988 085E		19505	USSR	16 SEP	674.9	65.6		19125	19091		
1988 085F		19535	USSR	16 SEP	339.2	65.4		18846	621		
1988 085G		19537	USSR	16 SEP	339.2	65.2		18838	629		
1988 085H		21751	USSR	16 SEP	223.9	64.4		11024	646		
1988 086A	CS-38	19508	JAPAN	16 SEP	1436.1	0.0		35787	35785		
1988 086C		19558	JAPAN	16 SEP	629.3	27.9		35800	95		
1988 089A	NOAA 11	19531	US	24 SEP	101.9	99.0		859	842		
1988 089B		19532	US	24 SEP	99.2	98.9		725	714		
1988 089C		19534	US	24 SEP	97.4	98.9		635	632		
1988 090A	MOLNIYA 3-33	19541	USSR	29 SEP	717.5	64.8		39358	982		
1988 090D		19544	USSR	29 SEP	698.2	64.7		38362	1019		
1988 091B	TORS 3	19548	US	29 SEP	1435.9	0.1		35800	35769		
1988 091C		19549	US	29 SEP	609.0	26.9		34513	329		
1988 091D		19550	US	29 SEP	1433.4	0.9		35799	35668		
1988 092A	COSMOS 1974	19554	USSR	3 OCT	718.2	62.5		38336	2036		
1988 092D		19557	USSR	3 OCT	705.4	63.3		37690	2052		
1988 093A	COSMOS 1975	19573	USSR	11 OCT	97.2	82.5		642	608		
1988 093B		19574	USSR	11 OCT	97.4	82.5		653	617		
1988 093C		20471	USSR	11 OCT	96.5	82.5		604	579		
1988 095A	RADUGA 22	19596	USSR	20 OCT	1435.9	1.5		35795	35769		
1988 095E		19600	USSR	20 OCT	602.6	46.6		34363	144		
1988 095F		19601	USSR	20 OCT	545.2	46.6		31321	138		
1988 095F		19777	USSR	20 OCT	1470.0	1.4		36495	36399		
1988 096A	COSMOS 1977	19608	USSR	25 OCT	716.7	63.2		37855	2447		
1988 096D		19611	USSR	25 OCT	704.9	63.4		37294	2422		
1988 098A	TDF-1	19621	FRANCE	29 OCT	1436.2	0.1		35798	35778		
1988 098B		19622	ESA	28 OCT	576.1	4.0		32809	305		
1988 098C		20132	ESA	26 OCT	437.4	4.0		25195	224		
1988 099A		19625	US	6 NOV	ELEMENTS NOT AVAILABLE						
1988 099B		19626	US	6 NOV	ELEMENTS NOT AVAILABLE						
1988 102A	COSMOS 1980	19649	USSR	23 NOV	101.9	71.0		849	844		
1988 102B		19650	USSR	23 NOV	101.7	71.0		853	829		
1988 102C		19656	USSR	23 NOV	105.1	71.0		1163	939		
1988 102D		19657	USSR	23 NOV	105.1	71.0		1161	838		
1988 102E		19658	USSR	23 NOV	104.9	71.0		1140	939		
1988 102F		19659	USSR	23 NOV	104.7	71.0		1123	838		
1988 102H		19813	USSR	23 NOV	105.1	71.0		1162	939		
1988 102J		20301	USSR	23 NOV	101.9	71.0		857	837		
										35*	

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1983 LAUNCHES (CONT.)										
1988 106H		19671	US	2 DEC	ELEMENTS NOT AVAILABLE					
1988 104A	EKRAN 19	19683	USSR	8 DEC	1436.1	1.4	35797	35775		
1988 104D		19685	USSR	8 DEC	1418.5	1.3	35514	35368		
1988 109A	SKYNET 4B	19687	UK	11 DEC	1436.1	0.3	35798	35774		
1988 1096	ASTRA 1A	19688	LUXORG	11 DEC	1436.0	0.0	36046	35521		
1988 109C		19689	ESA	11 DEC	640.1	6.7	35995	452		
1988 109D		19690	ESA	11 DEC	395.8	7.0	22674	284		
1988 111A	PRC 25	19710	PRC	22 DEC	1436.2	0.1	35792	35783		
1988 112A	MOLNIYA 3-34	19713	USSR	22 DEC	717.8	63.0	39135	1218		
1988 112D		19716	USSR	22 DEC	696.1	63.1	38176	1105		
1988 113A	COSMOS 1985	19720	USSR	23 DEC	92.0	73.5	376	369		
1988 113H		19764	USSR	23 DEC	94.3	73.5	490	478		
1988 115A	MOLNIYA 1-74	19730	USSR	28 DEC	717.6	64.8	39793	551		
1988 115D		19733	USSR	28 DEC	695.7	64.7	38707	550		
1989 LAUNCHES										
1989 001A	COSMOS 1987	19749	USSR	10 JAN	675.7	64.9	19142	19116		
1989 001B	COSMOS 1988	19750	USSR	10 JAN	675.7	64.9	19143	19115		
1989 001C	COSMOS 1989	19751	USSR	10 JAN	675.5	64.9	19151	19099		
1989 001E		19753	USSR	10 JAN	675.5	64.9	19153	19095		
1989 001F		19754	USSR	10 JAN	674.7	64.9	19128	19079		
1989 001G		19755	USSR	10 JAN	339.6	65.2	18753	740		
1989 001H		19856	USSR	10 JAN	339.6	65.3	18739	752		
1989 004A	GORIZONT 17	19765	USSR	26 JAN	1436.3	1.2	35792	35788		
1989 004E		19771	USSR	26 JAN	337.8	46.6	19205	170		
1989 004F		19776	USSR	26 JAN	1469.5	1.3	36545	36331		
1989 005A	COSMOS 1992	19769	USSR	26 JAN	100.5	74.0	800	765		
1989 005B		19770	USSR	26 JAN	100.3	74.0	777	770		
1989 005C		19831	USSR	26 JAN	100.4	74.1	792	761		
1989 005D		19945	USSR	26 JAN	100.2	74.2	773	766		
1989 006A	INTELSAT 5A F-15	19772	ITSO	27 JAN	1436.2	0.0	35800	35778		
1989 006B		19773	ESA	27 JAN	637.1	8.1	35743	554		
1989 009A	COSMOS 1994	19785	USSR	10 FEB	113.9	82.6	1414	1392		
1989 009B	COSMOS 1995	19786	USSR	10 FEB	114.1	82.6	1413	1411		
1989 009C	COSMOS 1996	19787	USSR	10 FEB	114.0	82.6	1414	1404		
1989 009D	COSMOS 1997	19788	USSR	10 FEB	113.9	82.6	1414	1398		
1989 009E	COSMOS 1998	19789	USSR	10 FEB	113.8	82.6	1414	1387		
1989 009F	COSMOS 1999	19790	USSR	10 FEB	113.7	82.6	1414	1381		
1989 009G		19791	USSR	10 FEB	114.7	82.6	1470	1413		
1989 011A	COSMOS 2001	19796	USSR	14 FEB	717.8	65.1	38478	1875		
1989 011D		19799	USSR	14 FEB	705.7	65.5	37973	1785		
1989 013A		19802	US	14 FEB	717.9	55.0	20301	20059		
1989 014A	MOLNIYA 1-75	19807	USSR	15 FEB	717.7	63.4	38508	1844		
1989 014D		19810	USSR	15 FEB	694.4	63.3	37421	1774		
1989 016A	EXOS-D	19822	JAPAN	21 FEB	193.6	75.2	9147	269		
1989 016C		19824	JAPAN	21 FEB	182.7	75.1	8311	264		
1989 016K		19952	JAPAN	21 FEB	157.9	75.6	6340	258		
1989 016L		19952	JAPAN	21 FEB	100.3	74.9	1319	221		
1989 016M		19963	JAPAN	21 FEB	174.4	75.2	7657	263		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1989 LAUNCHES (CONT.)										
1989 015P		20034	JAPAN	21 FEB	89.3	74.8	364	164		
1989 017A	COSMOS 2004	19826	USSR	22 FEB	104.9	93.0	1013	970		
1989 018A	METEOR 2-18	19851	USSR	28 FEB	104.0	92.5	956	935		
1989 015B		19852	USSR	28 FEB	104.0	92.5	960	935		
1989 020A	JCSAT-1	19874	JAPAN	6 MAR	1436.2	0.0	35792	35783		
1989 020B	MOP-1	19876	ESA	6 MAR	1436.3	0.2	35798	35780		
1989 020C		19877	ESA	5 MAR	250.3	6.7	13417	139		
1989 020D		19878	ESA	6 MAR	305.3	6.7	17094	190		
1989 020E		20800	UK	6 MAR	1433.8	0.7	36257	35224		
1989 021B		19883	US	13 MAR	1436.0	0.0	35795	35777		
1989 021C		19884	US	13 MAR	560.6	26.3	32011	275		
1989 021D		19913	US	13 MAR	1431.4	4.4	35815	35574		
1989 025A	COSMOS 2008	19902	USSR	24 MAR	114.4	74.0	1469	1391		
1989 025B	COSMOS 2009	19903	USSR	24 MAR	114.5	74.0	1470	1405		
1989 025C	COSMOS 2010	19904	USSR	24 MAR	114.8	74.0	1469	1422		
1989 025D	COSMOS 2011	19905	USSR	24 MAR	115.0	74.0	1469	1437		
1989 025E	COSMOS 2012	19906	USSR	24 MAR	115.1	74.0	1469	1454		
1989 025F	COSMOS 2013	19907	USSR	24 MAR	115.3	74.0	1478	1463		
1989 025G	COSMOS 2014	19908	USSR	24 MAR	115.5	74.0	1488	1468		
1989 025H	COSMOS 2015	19909	USSR	24 MAR	115.7	74.0	1508	1467		
1989 025J		19910	USSR	24 MAR	117.7	74.0	1683	1471		
1989 026A		19911	US	24 MAR	92.4	47.7	394	388		
1989 027A	TELE-X	19919	SWEDEN	2 APR	1436.1	0.0	35802	35771		
1989 028A	COSMOS 2016	19921	USSR	4 APR	104.7	93.0	1011	951		
1989 029A		19922	USSR	4 APR	104.6	93.0	1000	949		
1989 030A	RADUSA 23	19928	USSR	14 APR	1436.0	1.0	35790	35779		
1989 030D		19931	USSR	14 APR	1470.6	1.1	36537	36379		
1989 030F		19933	USSR	14 APR	597.5	46.8	34087	154		
1989 033B	MAGELLAN	19959	US	4 MAY	TRANS-VENUS TRAJECTORY					
1989 033C		19970	US	4 MAY	431.1	27.8	24743	307		
1989 033D		19971	US	4 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1989 035A		19976	US	10 MAY	ELEMENTS NOT AVAILABLE					
1989 035B		19977	US	10 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1989 035C		19983	US	10 MAY	CURRENT ELEMENTS NOT MAINTAINED					
1989 039A	COSMOS 2022	20024	USSR	31 MAY	675.7	65.3	19141	19116		
1989 039B	COSMOS 2023	20025	USSR	31 MAY	675.7	65.4	19170	19088		
1989 039C	COSMOS 2024	20026	USSR	31 MAY	675.4	65.3	19146	19095		
1989 039E		20028	USSR	31 MAY	674.5	65.4	19144	19054		
1989 039F		20044	USSR	31 MAY	675.4	65.3	19150	19091		
1989 039G		20031	USSR	31 MAY	339.4	65.0	18483	596		
1989 039H		20082	USSR	31 MAY	339.4	65.1	18449	532		
1989 041A	SUPERBIRD A	20040	JAPAN	5 JUN	1443.8	1.0	35957	35916		
1989 041B		20041	FRG	5 JUN	1436.1	0.0	35849	35722		
1989 041C		20042	ESA	5 JUN	490.3	6.7	28214	220		
1989 041D		20043	ESA	5 JUN	153.3	6.3	6039	182		
1989 042A	COSMOS 2026	20045	USSR	7 JUN	104.6	32.9	1006	948		
1989 042B		20046	USSR	7 JUN	104.5	32.9	998	946		
1989 043A	MOLNIYA 3-35	20052	USSR	8 JUN	717.7	64.6	39749	500		
1989 043D		20055	USSR	8 JUN	733.4	64.8	40556	564		
1989 044A		20061	US	10 JUN	718.0	54.9	20451	19913		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1969 LAUNCHES (CONT.)										
1989 045A	COSMOS 2027	20064	USSR	14 JUN	91.6	65.8	356	345		
1989 046A		20066	US	14 JUN	ELEMENTS NOT AVAILABLE					
1989 046B		20067	US	14 JUN	ELEMENTS NOT AVAILABLE					
1989 046C		20068	US	14 JUN	ELEMENTS NOT AVAILABLE					
1989 046D		20069	US	14 JUN	ELEMENTS NOT AVAILABLE					
1989 046E		20319	US	14 JUN	ELEMENTS NOT AVAILABLE					
1989 048A	RADUGA 1-1	20083	USSR	21 JUN	1436.2	0.3	35796	35779		
1989 048D		20086	USSR	21 JUN	1471.1	0.9	36577	36359		
1989 048F		20094	USSR	21 JUN	478.7	46.9	27497	289		
1989 050A	NADEZHDA	20103	USSR	4 JUL	104.8	83.0	1009	956		
1989 050B		20104	USSR	4 JUL	104.7	83.0	1001	954		
1989 052A	GORIZONT 18	20107	USSR	5 JUL	1436.0	0.8	35789	35779		
1989 052D		20110	USSR	5 JUL	1397.2	0.7	35148	34896		
1989 052F		20116	USSR	5 JUL	539.5	47.2	30795	351		
1989 053A	OLYMPUS	20122	ESA	12 JUL	1436.2	0.1	35794	35781		
1989 053B		20123	ESA	12 JUL	386.8	6.5	22193	219		
1989 053C		20229	ESA	12 JUN	637.8	6.1	35948	385		
1989 059A	COSMOS 2034	20149	USSR	25 JUL	104.8	82.9	1010	964		
1989 059B		20150	USSR	25 JUL	104.7	82.9	1000	958		
1989 061B		20167	US	8 AUG	ELEMENTS NOT AVAILABLE					
1989 061C		20172	US	9 AUG	ELEMENTS NOT AVAILABLE					
1989 061D		20344	US	8 AUG	CURRENT ELEMENTS NOT MAINTAINED					
1989 062A	TV-SAT 2	20168	FRG	8 AUG	1436.2	0.0	35816	35759		
1989 062B	HIPPARCOS	20169	ESA	8 AUG	638.7	6.3	35935	448		
1989 062C		20170	ESA	8 AUG	624.5	7.1	35302	345		
1989 062D		20171	ESA	8 AUG	131.8	7.2	4216	180		
1991 062G		21786	JAPAN	30 AUG	96.8	31.2	759	448		
1989 064A		20185	US	19 AUG	717.9	54.9	20223	20139		
1989 067A	BS8-R1	20193	UK	27 AUG	1436.2	0.0	35793	35781		
1989 067C		20195	US	27 AUG	644.7	23.3	36412	272		
1989 068A	COSMOS 2037	20196	USSR	28 AUG	115.0	73.6	1522	1482		
1989 068B		20197	USSR	28 AUG	116.0	73.6	1520	1482		
1989 069A		20202	US	4 SEP	ELEMENTS NOT AVAILABLE					
1989 069B		20203	US	4 SEP	ELEMENTS NOT AVAILABLE					
1989 069D		20205	US	4 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1989 070A	GMS-4	20217	JAPAN	5 SEP	1436.2	0.4	35792	35785		
1989 070B		20230	JAPAN	5 SEP	536.6	26.4	30768	223		
1989 070C		20317	JAPAN	5 SEP	1458.1	0.6	37305	35126		
1989 072A		20220	US	6 SEP	CURRENT ELEMENTS NOT MAINTAINED					
1989 074A	COSMOS 2038	20232	USSR	14 SEP	113.8	82.6	1407	1391		
1989 074B	COSMOS 2039	20233	USSR	14 SEP	113.7	82.6	1406	1384		
1989 074C	COSMOS 2040	20234	USSR	14 SEP	114.0	82.6	1414	1406		
1989 074D	COSMOS 2041	20235	USSR	14 SEP	113.8	82.6	1407	1395		
1989 074E	COSMOS 2042	20236	USSR	14 SEP	113.9	82.6	1407	1401		
1989 074F	COSMOS 2043	20237	USSR	14 SEP	113.9	82.6	1408	1405		
1989 074G		20238	USSR	14 SEP	114.7	82.6	1472	1408		
1989 077A		20253	US	25 SEP	1436.1	3.5	35802	35770		
1989 078A	MULNIYA 1-76	20255	USSR	27 SEP	717.6	63.7	39725	621		
1989 078D		20258	USSR	27 SEP	698.4	63.7	38775	515		
1989 080A	INTER-COSMOS 24	20261	USSR	28 SEP	115.5	82.6	2454	497		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1989 LAUNCHES (CONT.)											
1989 0808		20281	USSR	28 SEP	115.4	92.6	2453	496			
1989 080C		20262	USSR	28 SEP	115.7	82.6	2474	496			
1989 081A	GORIZANT 19	20263	USSR	28 SEP	1436.0	0.7	35789	35779			
1989 081D		20266	USSR	28 SEP	1431.0	0.6	35857	35514			
1989 0848	GALILEO	20298	US	18 OCT	ELEMENTS NOT AVAILABLE						
1989 084C		20299	US	19 OCT	CURRENT ELEMENTS NOT MAINTAINED						
1989 084D		20300	US	18 OCT	ELEMENTS NOT AVAILABLE						
1989 085A		20302	US	21 OCT	718.0	54.2	20246	20118			
1989 0858		20303	US	21 OCT	98.8	35.6	916	489			
1989 086A	METEOR 3-3	20305	USSR	24 OCT	109.4	82.6	1210	1184			
1989 086B		20306	USSR	24 OCT	109.4	82.6	1209	1184			
1989 087A	INTELSAT 6A	20315	ITSO	27 OCT	1434.9	0.1	37100	34426			
1989 087B		20316	ESA	27 OCT	600.3	7.1	34073	315			
1989 089A	COBE	20322	US	19 NOV	102.4	99.0	883	863			
1989 089B		20323	US	18 NOV	99.8	97.1	805	691			
1989 089C		20324	US	18 NOV	102.4	99.0	882	862			
1989 089D		20328	US	18 NOV	102.7	99.0	888	882			
1989 0908		20355	US	23 NOV	ELEMENTS NOT AVAILABLE						
1989 090C		20356	US	23 NOV	ELEMENTS NOT AVAILABLE						
1989 090D		20357	US	23 NOV	ELEMENTS NOT AVAILABLE						
1989 091A	COSMOS 2050	20330	USSR	23 NOV	717.8	62.9	39196	1161			
1989 091D		20333	USSR	23 NOV	705.2	63.5	38556	1174			
1989 093A	KVANT -2	20335	USSR	26 NOV	92.2	51.6	381	379			
1989 094A	MOLNIYA 3-36	20338	USSR	28 NOV	717.6	63.7	39780	567			
1989 094B		20339	USSR	28 NOV	732.2	63.7	40479	582			
1989 096A	GRANAT	20352	USSR	1 DEC	5894.9	84.0	178324	25111			
1989 096C		20354	USSR	1 DEC	5772.3	83.2	176347	24080			
1989 097A		20361	US	11 DEC	718.0	55.1	20354	20010			
1989 097B		20362	US	11 DEC	98.7	35.6	908	486			
1989 098A	RADUGA 24	20367	USSR	15 DEC	1436.0	0.4	35796	35771			
1989 098D		20370	USSR	15 DEC	1471.6	0.4	36572	36384			
1989 100A	COSMOS 2053	20389	USSR	27 DEC	93.9	73.5	472	458			
1989 100B	- 100AG		USSR	27 DEC	SEE NOTE 51*						
1989 101A	COSMOS 2054	20391	USSR	27 DEC	1436.2	0.4	35792	35785			
1989 101D		20394	USSR	27 DEC	1465.7	0.4	36412	36316			
1989 101E		20399	USSR	27 DEC	484.6	46.9	27772	342			
1989 101G		21648	USSR	27 DEC	CURRENT ELEMENTS NOT MAINTAINED						
1990 LAUNCHES											
1990 001A	SKYNET 4A	20401	UK	1 JAN	1436.1	2.2	35798	35772			
1990 001B	JCSAT	20402	JAPAN	1 JAN	1436.2	0.0	35795	35780			
1990 001D		20404	US	1 JAN	608.1	21.9	34466	328			
1990 001F		20406	US	1 JAN	332.0	26.7	18705	300			
1990 002B	LEASAT 5	20410	US	9 JAN	1436.1	2.7	35798	35778			
1990 002C		20411	US	9 JAN	269.3	27.2	14561	311			
1990 004A	COSMOS 2056	20432	USSR	18 JAN	100.6	74.0	804	770			
1990 004B		20433	USSR	18 JAN	100.5	74.0	808	755			
1990 004C		20434	USSR	18 JAN	100.8	74.0	812	782			
1990 004D		20435	USSR	18 JAN	100.3	74.0	791	757			

OBJECTS IN ORBIT

INTER-NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLINATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1990 LAUNCHES (CONT.)										
1990 005A	SPOT-2	20436	FRANCE	22 JAN	101.3	98.7	823	821		
1990 005B	OSCAR 14	20437	UK	22 JAN	100.7	98.7	798	782		
1990 005C	OSCAR 15	20438	UK	22 JAN	100.7	98.7	799	785		
1990 005D	OSCAR 16	20439	US	22 JAN	100.7	98.7	798	782		
1990 005E	OSCAR 17	20440	BRAZIL	22 JAN	100.7	98.7	798	781		
1990 005F	OSCAR 18	20441	US	22 JAN	100.7	98.7	798	781		
1990 005G	OSCAR 19	20442	ARGENT	22 JAN	100.7	98.7	798	781		
1990 005H		20443	ESA	22 JAN	100.5	98.6	791	776		
1990 005I		20444	USSR	23 JAN	717.8	64.2	39951	403		
1990 005J	MOLNIYA 3	20446	USSR	23 JAN	696.4	64.1	38896	400		
1990 006C		20448	USSR	24 JAN	ELEMENTS NOT AVAILABLE					
1990 007A	MUSES A	20451	JAPAN	24 JAN	SELENOCENTRIC ORBIT					
1990 007B	HAGOROMO	20452	JAPAN	24 JAN	ELEMENTS NOT AVAILABLE					
1990 007D		20453	US	24 JAN	718.0	54.3	20308	20058		
1990 008A		20454	US	24 JAN	101.8	35.6	1239	449		
1990 008C		20455	US	24 JAN	231.4	37.7	12037	178		
1990 008E		20456	USSR	30 JAN	ELEMENTS NOT AVAILABLE					
1990 010A	COSMOS 2058	20465	USSR	30 JAN	97.5	82.5	656	623		
1990 010B		20466	USSR	30 JAN	1436.2	0.0	35792	35784		
1990 011A	PRC-26	20473	PRC	4 FEB	603.3	30.7	34286	259		
1990 011B		20474	PRC	4 FEB	100.7	74.0	806	780		
1990 011C		21255	USSR	10 DEC	103.2	99.1	909	908		
1990 013A	MOS 18	20478	JAPAN	7 FEB	112.2	99.1	1741	909		
1990 013B	DEBUT	20479	JAPAN	7 FEB	112.2	99.1	1742	909		
1990 013C	JAS 1-8	20480	JAPAN	7 FEB	110.5	99.0	1606	889		
1990 013D		20491	JAPAN	7 FEB	94.6	43.1	514	486		
1990 015A		20496	US	14 FEB	92.0	43.1	383	357		
1990 015B		20497	US	14 FEB	1436.0	0.3	35798	35772		
1990 016A	RADUGA 25	20499	USSR	15 FEB	1439.6	0.2	35998	35711		
1990 016C		20502	USSR	15 FEB	104.8	83.0	1016	952		
1990 017A	NADEZHDA-2	20508	USSR	27 FEB	104.7	93.0	1011	948		
1990 017B		20509	USSR	27 FEB	97.5	82.5	649	625		
1990 018A	OKEAN-2	20510	USSR	28 FEB	97.6	82.5	656	631		
1990 018B		20511	USSR	28 FEB	ELEMENTS NOT AVAILABLE					
1990 019B		20516	US	28 FEB	ELEMENTS NOT AVAILABLE					
1990 019C		20517	US	28 FEB	ELEMENTS NOT AVAILABLE					
1990 019D		20518	US	28 FEB	ELEMENTS NOT AVAILABLE					
1990 019E		20519	US	28 FEB	ELEMENTS NOT AVAILABLE					
1990 019F		20520	US	28 FEB	ELEMENTS NOT AVAILABLE					
1990 019G		20521	US	29 FEB	ELEMENTS NOT AVAILABLE					
1990 019H		20522	USSR	14 MAR	95.9	28.3	572	551		
1990 021A	INTELSAT-6	20523	USSR	20 MAR	104.7	82.9	1013	969		
1990 023A	COSMOS 2061	20527	USSR	20 MAR	104.9	82.9	1004	969		
1990 023B		20528	USSR	26 MAR	718.0	55.2	20277	20089		
1990 025A		20533	US	26 MAR	193.8	37.5	9255	174		
1990 025C		20535	US	26 MAR	717.8	63.9	39322	1030		
1990 026A	COSMOS 2063	20536	USSR	27 MAR	709.3	64.5	38885	1051		
1990 026D		20539	USSR	27 MAR	94.8	94.1	588	429		
1990 028A	PEGSAT	20546	US	5 APR	96.0	94.1	652	480		
1990 028B		20547	US	5 APR	115.4	74.0	1487	1461		
1990 029A	COSMOS 2064	20549	USSR	6 APR	115.2	74.0	1472	1460		
1990 029B	COSMOS 2065	20550	USSR	6 APR						

OBJECTS IN ORBIT											NOTES
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)		
1990 LAUNCHES (CONT.)											
1990 029C	COSMOS 2066	20551	USSR	6 APR	114.3	74.0	1461	1384			
1990 029D	COSMOS 2067	20552	USSR	6 APR	114.4	74.0	1461	1398			
1990 029E	COSMOS 2068	20553	USSR	6 APR	114.6	74.0	1461	1412			
1990 029F	COSMOS 2069	20554	USSR	6 APR	114.8	74.0	1461	1426			
1990 029G	COSMOS 2070	20555	USSR	6 APR	114.9	74.0	1462	1440			
1990 029H	COSMOS 2071	20556	USSR	6 APR	115.1	74.0	1461	1456			
1990 029J		20557	USSR	5 APR	117.7	74.0	1695	1461			
1990 030A	ASIASAT 1	20558	UK	5 APR	1436.2	0.1	35790	35786			
1990 030B		20559	PRC	7 APR	598.5	30.7	33982	309			
1990 031B		20560	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 031C		20561	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 031D		20562	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 031E		20563	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 031F		20564	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 031G		20565	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 031H		20575	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 034A		20576	US	11 APR	ELEMENTS NOT AVAILABLE						
1990 034B	PALAPA 82R	20570	INDO	13 APR	1436.1	0.2	35787	35786			
1990 034C		20571	US	13 APR	103.9	22.8	1386	497			
1990 036A	COSMOS 2074	20572	US	13 APR	423.2	18.6	24403	182			
1990 036B		20577	USSR	20 APR	104.8	82.9	1003	962			
1990 037B		20578	USSR	20 APR	104.7	82.9	992	963			
1990 037B		20580	US	24 APR	96.7	28.5	605	598			
1990 039A	COSMOS 2075	20581	USSR	25 APR	91.2	74.0	338	328			
1990 039A	MOLNIYA 1-77	20583	USSR	26 APR	717.7	63.1	39463	889			
1990 039D		20586	USSR	26 APR	733.1	63.1	40191	713			
1990 040A	COSMOS 2076	20596	USSR	28 APR	717.5	63.1	39428	913			
1990 040D		20599	USSR	28 APR	707.6	63.6	38920	930			
1990 043A	SCOUT M-1	20607	US	9 MAY	98.4	89.9	758	604			
1990 043B		20608	US	9 MAY	98.3	89.9	755	603			
1990 043C		20609	US	9 MAY	98.1	89.9	740	595			
1990 043D		20610	US	9 MAY	97.8	89.9	722	581			
1990 043E		20611	US	9 MAY	97.7	89.9	716	577			
1990 043F		20612	US	9 MAY	97.6	89.9	700	586			
1990 043G		20613	US	9 MAY	94.4	89.9	515	463			
1990 043H		20614	US	9 MAY	97.6	89.9	700	582			
1990 043J		20634	US	9 MAY	96.1	89.9	613	526			
1990 043K		20651	US	9 MAY	93.3	90.1	787	565			
1990 043L		20759	US	9 MAY	96.8	89.7	638	572			
1990 045A	COSMOS 2079	20619	USSR	19 MAY	675.7	65.2	19192	19066			
1990 045B	COSMOS 2080	20620	USSR	19 MAY	675.7	65.2	19144	19114			
1990 045C	COSMOS 2081	20621	USSR	19 MAY	675.7	65.2	19166	19092			
1990 045E		20623	USSR	19 MAY	674.7	65.2	19149	19059			
1990 045F		20630	USSR	19 MAY	339.7	65.0	19022	475			
1990 045G		20631	USSR	19 MAY	339.5	64.9	19017	469			
1990 046A	COSMOS 2082	20674	USSR	22 MAY	101.9	71.0	852	843			
1990 046B		20625	USSR	22 MAY	101.8	71.0	855	834			
1990 046C		20626	USSR	22 MAY	105.1	71.0	1154	341			
1990 046D		20527	USSR	22 MAY	105.2	71.0	1165	342			
1990 046E		20628	USSR	22 MAY	105.1	71.0	1159	339			

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APDCEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1990 LAUNCHES (CONT.)										
1990 046F		20629	USSR	22 MAY	105.0	71.0	1144	340		
1990 048A	KRISTALL	20635	USSR	31 MAY	92.2	51.6	391	379		
1990 049A	ROSAT	20638	FRG	1 JUN	95.8	53.0	565	548		
1990 049B		20639	US	1 JUN	89.3	52.5	245	237		
1990 050A		20641	US	8 JUN	ELEMENTS NOT AVAILABLE					
1990 050B		20682	US	8 JUN	ELEMENTS NOT AVAILABLE					
1990 050C		20691	US	8 JUN	ELEMENTS NOT AVAILABLE					
1990 050D		20692	US	8 JUN	ELEMENTS NOT AVAILABLE					
1990 050E		20642	US	8 JUN	ELEMENTS NOT AVAILABLE					
1990 051A	INSAT-1D	20643	INDIA	12 JUN	1436.2	0.1	35905	35770		
1990 052A	MOLNIYA 3-38	20646	USSR	13 JUN	717.7	62.9	39372	979		
1990 052D		20649	USSR	13 JUN	741.9	62.9	40515	1020		
1990 054A	GORIZONT 20	20659	USSR	20 JUN	1436.2	0.1	35810	35764		
1990 054D		20662	USSR	20 JUN	1432.9	0.2	35791	35656		
1990 054E		20704	USSR	20 JUN	490.9	46.9	28185	283		
1990 055A	COSMOS 2084	20663	USSR	21 JUN	97.9	62.8	777	536		
1990 055D		20666	USSR	21 JUN	97.7	62.8	764	534		
1990 056A	INTELSAT	20667	ITSO	23 JUN	1436.2	0.0	35801	35774		
1990 056C		20669	US	23 JUN	670.6	24.4	37715	284		
1990 057A	METEOR 2-19	20670	USSR	27 JUN	104.0	92.5	958	934		
1990 057B		20671	USSR	27 JUN	104.0	92.5	957	934		
1990 058A	GAMMA	20683	USSR	11 JUL	91.3	51.6	340	337		
1990 061A	COSMOS 2085	20693	USSR	18 JUL	1436.1	0.2	35805	35769		
1990 061D		20696	USSR	18 JUL	1434.7	0.2	35880	35639		
1990 061F		20698	USSR	18 JUL	519.6	45.8	29781	280		
1990 063A	TDF-2	20705	FRANCE	24 JUL	1436.2	0.0	35795	35779		
1990 063B	DFS-2	20706	FRG	24 JUL	1436.1	0.0	35932	35640		
1990 063C		20717	ESA	24 JUL	635.9	3.8	35847	389		
1990 063D		20718	ESA	24 JUL	597.8	3.9	33936	322		
1990 064A	COSMOS 2087	20707	USSR	25 JUL	717.9	63.2	38889	1471		
1990 064D		20710	USSR	25 JUL	703.9	63.5	38245	1423		
1990 065A	CRRES	20712	US	25 JUL	617.1	17.5	34974	289		
1990 065B	- 065P		US	25 JUL	SEE NOTE		57*			57*
1990 066A	COSMOS 2088	20720	USSR	30 JUL	116.0	73.6	1522	1481		
1990 066B		20721	USSR	30 JUL	116.0	73.6	1519	1480		
1990 068A		20724	US	2 AUG	717.9	54.7	20443	19916		
1990 070A	COSMOS 2090	20735	USSR	3 AUG	113.8	82.6	1410	1388		
1990 070B	COSMOS 2091	20736	USSR	3 AUG	114.0	82.6	1411	1409		
1990 070C	COSMOS 2092	20737	USSR	3 AUG	114.0	82.6	1410	1405		
1990 070D	COSMOS 2093	20738	USSR	3 AUG	113.9	82.6	1410	1398		
1990 070E	COSMOS 2094	20739	USSR	8 AUG	113.8	82.6	1410	1393		
1990 070F	COSMOS 2095	20740	USSR	8 AUG	113.7	82.6	1410	1382		
1990 070G		20741	USSR	8 AUG	114.6	82.6	1466	1410		
1990 071A	MOLNIYA 1-78	20742	USSR	10 AUG	717.8	62.9	39114	1240		
1990 071D		20745	USSR	10 AUG	732.7	63.0	39817	1270		
1990 074A	B58-R2	20762	UK	19 AUG	1436.2	0.0	35792	35763		
1990 074B		20763	US	19 AUG	102.5	24.8	1273	476		
1990 074C		20764	US	19 AUG	670.7	21.5	37567	434		
1990 075A	COSMOS 2096	20765	USSR	23 AUG	92.7	65.0	415	402		
1990 076A	COSMOS 2097	20767	USSR	28 AUG	717.7	64.4	39369	362		

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1990 LAUNCHES (CONT.)										
1990 0760		20770	USSR	28 AUG	707.8	64.8	38921	940		
1990 077A	BS-3A	20771	JAPAN	28 AUG	1436.1	0.0	35803	35769		
1990 078A	COSMOS 2098	20774	USSR	28 AUG	108.5	83.0	1918	394		
1990 078B		20775	USSR	28 AUG	104.0	83.0	1887	378		
1990 079A	SKYNET 4C	20776	UK	30 AUG	1436.1	3.3	35789	35784		
1990 079B	EUTELSAT II F1	20777	ESA	30 AUG	1436.2	0.2	35849	35726		
1990 079C		20778	ESA	30 AUG	415.5	7.4	23907	222		
1990 081A	FENGYUN 1-2	20788	PRC	3 SEP	102.7	98.9	898	875		
1990 081D	OBICG		PRC	3 SEP	SEE NOTE	52*				52*
1990 083A	COSMOS 2100	20804	USSR	14 SEP	104.8	82.9	1012	955		
1990 083B		20805	USSR	14 SEP	104.7	82.9	1004	952		
1990 084A	MOLNIYA 3-39	20813	USSR	20 SEP	717.8	62.9	39227	1130		
1990 084D		20816	USSR	20 SEP	731.8	62.9	39962	1083		
1990 086A	METEOR 2-20	20826	USSR	28 SEP	104.0	82.5	959	938		
1990 086B		20827	USSR	28 SEP	104.0	82.5	958	938		
1990 088A		20830	US	1 OCT	719.0	55.0	20373	19992		
1990 090B	ULYSSES	20842	US	6 OCT	HELIOCENTRIC ORBIT					
1990 090C		20843	US	6 OCT	545.4	28.0	31267	254		
1990 090D		20844	US	6 OCT	ELEMENTS NOT AVAILABLE					
1990 090E		20845	US	6 OCT	ELEMENTS NOT AVAILABLE					
1990 091A	SBS-6	20872	US	12 OCT	1436.0	0.0	35796	35777		
1990 091B	GALAXY VI	20873	US	12 OCT	1436.0	0.0	35791	35781		
1990 091C		20874	ESA	12 OCT	613.5	8.0	34790	288		
1990 093A	INMARSAT 2 F1	20918	UK	30 OCT	1436.1	2.0	35801	35772		
1990 093B		20919	US	30 OCT	98.9	24.8	1038	373		
1990 094A	GORIZONT 21	20923	USSR	3 NOV	1436.1	0.4	35793	35778		
1990 094D		20926	USSR	3 NOV	1427.7	0.4	35790	35453		
1990 094E		20927	USSR	3 NOV	602.1	46.7	34328	155		
1990 095A		20929	US	13 NOV	ELEMENTS NOT AVAILABLE					
1990 095C		20931	US	13 NOV	ELEMENTS NOT AVAILABLE					
1990 095D		20932	US	13 NOV	ELEMENTS NOT AVAILABLE					
1990 097B		20963	US	15 NOV	ELEMENTS NOT AVAILABLE					
1990 097C		20964	US	15 NOV	ELEMENTS NOT AVAILABLE					
1990 097D		20965	US	15 NOV	ELEMENTS NOT AVAILABLE					
1990 099A	COSMOS 2105	20941	USSR	20 NOV	717.5	64.6	39443	898		
1990 099D		20944	USSR	20 NOV	707.4	64.7	38871	972		
1990 100A	SATCOM I	20945	US	20 NOV	1436.2	0.0	35791	35784		
1990 100B	GSTAR IV	20946	US	20 NOV	1436.0	0.0	35788	35785		
1990 100C		20947	ESA	20 NOV	617.5	7.6	34978	308		
1990 101A	MOLNIYA 1-79	20949	USSR	23 NOV	717.8	63.8	39817	538		
1990 101D		20952	USSR	23 NOV	730.3	63.9	40435	534		
1990 102A	GORIZONT 22	20953	USSR	23 NOV	1436.2	0.5	35805	35773		
1990 102D		21046	USSR	23 NOV	1471.4	0.5	36569	36380		
1990 103A		20959	US	26 NOV	717.9	54.9	20331	20031		
1990 103B		20960	US	26 NOV	96.4	21.4	680	492		
1990 103C		20961	US	26 NOV	172.1	34.5	7576	162		
1990 104A	COSMOS 2106	20966	USSR	28 NOV	94.5	82.5	503	486		
1990 104B	- 104W		USSR	28 NOV	SEE NOTE	55*				55*
1990 105A		20978	US	1 DEC	100.5	38.8	840	726		
1990 105B	- 105AC		US	1 DEC	SEE NOTE	53*				53*

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1990 LAUNCHES (CONT.)										
1990 103A	COSMOS 2107	20985	USSR	4 DEC	92.7	65.0	415	402		
1990 110A	COSMOS 2109	21006	USSR	8 DEC	675.7	64.8	19287	18971		
1990 110B	COSMOS 2110	21007	USSR	8 DEC	675.7	64.9	19229	19029		
1990 110C	COSMOS 2111	21008	USSR	8 DEC	675.7	64.8	19150	19108		
1990 110F		21011	USSR	8 DEC	675.2	64.8	19128	19106		
1990 110G		21012	USSR	8 DEC	340.1	65.2	18976	548		
1990 110H		21013	USSR	8 DEC	340.1	65.1	18976	548		
1990 111A	COSMOS 2112	21014	USSR	10 DEC	100.6	74.0	808	766		
1990 111B		21015	USSR	10 DEC	100.5	74.1	799	764		
1990 112A	RADIUGA 26	21016	USSR	20 DEC	1436.2	0.6	35795	35780		
1990 112D		21019	USSR	20 DEC	1439.6	0.6	35985	35725		
1990 112E		21024	USSR	21 DEC	616.9	46.7	35101	152		
1990 112F		21025	USSR	20 DEC	583.3	46.5	33337	158		
1990 114A	COSMOS 2114	21028	USSR	22 DEC	114.0	82.6	1413	1406		
1990 114B	COSMOS 2115	21029	USSR	22 DEC	113.9	82.6	1407	1406		
1990 114C	COSMOS 2116	21030	USSR	22 DEC	113.9	82.6	1406	1400		
1990 114D	COSMOS 2117	21031	USSR	22 DEC	113.8	82.6	1406	1395		
1990 114E	COSMOS 2118	21032	USSR	22 DEC	113.8	82.6	1406	1390		
1990 114F	COSMOS 2119	21033	USSR	22 DEC	113.7	82.6	1406	1383		
1990 114G		21034	USSR	22 DEC	114.6	82.6	1471	1407		
1990 116A	RADIUGA 1-2	21038	USSR	27 DEC	1436.2	0.6	35790	35786		
1990 116D		21041	USSR	27 DEC	1470.2	0.6	36631	36273		
1990 115F		21045	USSR	27 DEC	362.2	46.5	21989	147		
1991 LAUNCHES										
1991 001A	NATO IVA	21047	NATO	8 JAN	1436.2	3.6	35794	35780		
1991 001B		21049	NATO	8 JAN	121.7	18.5	2723	786		
1991 001C		21049	NATO	8 JAN	635.9	25.4	35407	827		
1991 003A	ITALSAT-1	21055	ITALY	15 JAN	1436.1	0.0	35870	35703		
1991 003B	EUFELSAT	21056	ESA	15 JAN	1434.4	0.1	39098	33409		
1991 003C		21057	ESA	15 JAN	602.4	6.5	34252	247		
1991 003D		21058	ESA	15 JAN	519.9	6.7	29855	222		
1991 005A	COSMOS 2122	21065	USSR	18 JAN	92.7	65.0	415	402		
1991 006A	INFORMTR-1	21087	USSR	29 JAN	104.7	82.9	1008	953		
1991 006B		21038	USSR	29 JAN	104.6	82.9	994	955		
1991 007A	COSMOS 2123	21089	USSR	5 FEB	104.7	82.9	1005	959		
1991 007B		21090	USSR	5 FEB	104.6	82.9	994	961		
1991 007C		21091	USSR	5 FEB	104.6	82.9	997	953		
1991 009A	COSMOS 2125	21100	USSR	12 FEB	115.2	74.0	1470	1455		
1991 009B	COSMOS 2126	21101	USSR	12 FEB	115.5	74.0	1494	1464		
1991 009C	COSMOS 2127	21102	USSR	12 FEB	115.3	74.0	1475	1465		
1991 009D	COSMOS 2128	21103	USSR	12 FEB	115.0	74.0	1466	1443		
1991 009E	COSMOS 2129	21104	USSR	12 FEB	114.8	74.0	1467	1427		
1991 009F	COSMOS 2130	21105	USSR	12 FEB	114.5	74.0	1467	1398		
1991 009G	COSMOS 2131	21106	USSR	12 FEB	114.4	74.0	1466	1385		
1991 009H	COSMOS 2132	21107	USSR	12 FEB	114.7	74.0	1467	1413		
1991 009J - 009AL			USSR	12 FEB	SEE NOTE		54*			54*
1991 010A	COSMOS 2133	21111	USSR	14 FEB	1442.2	1.6	36067	35744		
1991 010D		21114	USSR	14 FEB	453.5	46.5	26201	146		

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INFR- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
1991 LAUNCHES (CONT.)										
1991 010F		211129	USSR	14 FEB	1439.5	1.6	35906	35761		
1991 012A	MOLNIYA 1-80	211118	USSR	15 FEB	717.9	63.0	39598	755		
1991 012U		211121	USSR	15 FEB	700.5	62.9	38755	744		
1991 012E		211122	USSR	15 FEB	600.6	46.5	34219	182		
1991 013A	COSMOS 2135	211130	USSR	25 FEB	104.5	82.8	1019	919		
1991 013E		211131	USSR	26 FEB	104.4	82.8	1011	917		
1991 014A	RACUGA 27	211132	USSR	28 FEB	1435.9	0.8	35786	35780		
1991 014U		211135	USSR	28 FEB	1392.2	0.8	35040	34806		
1991 014F		21202	USSR	28 FEB	507.1	47.3	34568	174		
1991 015A	ASTRA 1-8	211139	LUXEM	2 MAR	1436.0	0.1	35970	35600		
1991 015B	HOP-2	211140	ESA	2 MAR	1436.3	0.7	35792	35787		
1991 015C		211141	ESA	2 MAR	594.1	6.4	33848	213		
1991 015D		211142	ESA	2 MAR	490.8	6.5	28288	178		
1991 017A		211147	US	2 MAR	ELEMENTS NOT AVAILABLE					
1991 017E		211148	US	8 MAR	ELEMENTS NOT AVAILABLE					
1991 018A	INMARSAT-2	211149	UK	8 MAR	1436.2	2.4	35796	35778		
1991 018B		211150	US	9 MAR	100.1	25.0	1114	410		
1991 018C		211151	US	8 MAR	608.8	23.2	34633	196		
1991 019A	NADEZHDA	211152	USSR	12 MAR	104.8	82.9	1015	954		
1991 019C		211153	USSR	12 MAR	104.7	82.9	1006	952		
1991 021A	COSMOS 2137	211190	USSR	19 MAR	93.3	55.8	459	416		
1991 021B		211191	USSR	19 MAR	92.5	55.8	415	379		
1991 022A	MOLNIYA 3-40	211196	USSR	22 MAR	717.6	62.9	39587	759		
1991 022C		211199	USSR	22 MAR	700.1	63.0	38689	791		
1991 024A	ALMAZ-1	21213	USSR	30 MAR	90.5	72.7	305	293		
1991 025A	COSMOS 2139	21216	USSR	4 APR	675.7	64.9	19154	19104		
1991 025B	COSMOS 2140	21217	USSR	4 APR	675.7	64.9	19161	19097		
1991 025C	COSMOS 2141	21218	USSR	4 APR	675.7	64.9	19153	19105		
1991 025E		21221	USSR	4 APR	675.5	64.9	19134	19113		
1991 025F		21220	USSR	4 APR	339.6	64.9	19083	408		
1991 025G		21226	USSR	4 APR	339.6	64.9	19081	408		
1991 025H		21222	CANADA	5 APR	1436.1	0.0	35796	35778		
1991 026B	AVIK E-2	21223	ESA	5 APR	636.1	3.8	35039	404		
1991 027B	GRC	21225	US	5 APR	93.1	28.5	432	416		
1991 028A	ASC 2 SPACENET 5	21227	US	13 APR	1436.0	0.0	35793	35781		
1991 028C		21229	US	13 APR	115.6	24.0	2401	561		
1991 029A		21229	US	13 APR	655.6	22.6	35898	1341		
1991 029B	COSMOS 2142	21230	USSR	16 APR	104.9	83.0	1015	960		
1991 029C		21231	USSR	16 APR	104.7	93.0	1005	954		
1991 030A	METEOR 3-4	21232	USSR	24 APR	109.3	82.5	1207	1181		
1991 030B		21233	USSR	24 APR	109.3	82.5	1206	1184		
1991 030C		21234	USSR	24 APR	109.3	82.5	1206	1184		
1991 031C		21262	US	28 APR	ELEMENTS NOT AVAILABLE					
1991 032A	NOAA-12	21263	US	14 MAY	101.2	93.7	325	807		
1991 032B		21267	US	14 MAY	100.9	93.7	306	797		
1991 032C		21298	US	14 MAY	100.9	98.7	806	798		
1991 033A	COSMOS 2143	21299	USSR	15 MAY	113.9	82.6	1413	1397		
1991 033B	COSMOS 2144	21300	USSR	15 MAY	114.0	82.6	1413	1409		
1991 033C	COSMOS 2145	21301	USSR	15 MAY	114.0	82.6	1413	1403		
1991 033D	COSMOS 2146	21302	USSR	16 MAY	113.8	82.6	1413	1392		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT			PERIOD MINUTES	INCL- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH						
1991 LAUNCHES (CONT.)										
1991 033E	COSMOS 2147	21303	USSR	16 MAY	113.8	82.6	1413	1387		
1991 033F	COSMOS 2148	21304	USSR	16 MAY	113.7	82.6	1413	1380		
1991 033G		21305	USSR	16 MAY	114.7	82.6	1472	1412		
1991 035C		21479	USSR	21 MAY	85.8	92.2	90	65		
1991 037A	AURORA-II	21392	US	29 MAY	1436.1	0.0	35795	35778		
1991 037B		21393	US	29 MAY	113.0	25.0	2324	403		
1991 037C		21394	US	29 MAY	548.7	24.4	35455	1436		
1991 039A	OKEAN 3	21397	USSR	4 JUN	97.6	82.5	659	627		
1991 039H		21398	USSR	4 JUN	97.6	82.5	660	628		
1991 041A	COSMOS 2150	21418	USSR	11 JUN	100.7	74.0	800	779		
1991 041B		21419	USSR	11 JUN	100.6	74.0	800	775		
1991 041C		21420	USSR	11 JUN	100.9	74.1	808	795		
1991 041D		21711	USSR	11 JUN	100.7	74.0	804	776		
1991 042A	COSMOS 2151	21422	USSR	13 JUN	97.6	82.5	657	630		
1991 042B		21423	USSR	13 JUN	97.6	82.5	657	630		
1991 043A	MOLNIYA 1-81	21426	USSR	18 JUN	717.8	63.0	39810	547		
1991 043D		21429	USSR	18 JUN	732.3	63.0	40526	541		
1991 045A	REX	21527	US	29 JUN	101.3	89.6	870	767		
1991 045B		21528	US	29 JUN	101.2	89.6	853	768		
1991 045C		21529	US	29 JUN	101.3	89.6	872	766		
1991 045D		21532	US	29 JUN	101.3	89.5	875	761		
1991 045E		21691	US	29 JUN	100.5	89.8	797	765		
1991 045F		21712	US	29 JUN	102.0	89.3	961	741		
1991 046A	GORIZONT 23	21533	USSR	2 JUL	1436.2	1.0	35851	35725		
1991 046D		21536	USSR	2 JUL	1426.8	1.1	35688	35521		
1991 046E		21538	USSR	2 JUL	616.2	46.7	35043	176		
1991 046F		21541	USSR	2 JUL	544.7	46.6	31123	305		
1991 047A		21552	US	4 JUL	718.0	55.3	20289	20076		
1991 047D		21555	US	4 JUL	324.7	34.6	13347	194		
1991 049A	COSMOS 2153	21560	USSR	10 JUL	89.5	64.8	270	225		
1991 050A	ERS-1	21574	ESA	17 JUL	100.3	98.5	775	774		
1991 050B	UDSAT-F	21575	UK	17 JUL	100.2	98.5	773	761		
1991 050C	ORBCOMM-X	21576	US	17 JUL	100.2	98.5	773	766		
1991 050D	TUBSAT	21577	FRG	17 JUL	100.2	98.5	773	763		
1991 050E	SARA	21578	FRANCE	17 JUL	100.2	98.5	770	762		
1991 050F		21610	ESA	17 JUL	100.4	98.4	778	772		
1991 051A	MICROSAT 1	21580	US	17 JUL	89.9	92.0	278	256		
1991 051B	MICROSAT 2	21581	US	17 JUL	89.9	92.0	286	254		
1991 051C	MICROSAT 3	21582	US	17 JUL	89.9	92.0	286	252		
1991 051D	MICROSAT 4	21583	US	17 JUL	89.9	92.0	284	255		
1991 051E	MICROSAT 5	21584	US	17 JUL	89.9	92.0	285	257		
1991 051F	MICROSAT 6	21585	US	17 JUL	90.0	92.0	291	254		
1991 051G	MICROSAT 7	21586	US	17 JUL	89.9	92.0	284	257		
1991 053A	MOLNIYA 1-82	21630	USSR	1 AUG	717.6	53.2	39786	561		
1991 053D		21633	USSR	1 AUG	733.2	53.2	40554	556		
1991 054A	STS-43	21638	US	2 AUG	90.5	28.4	324	298		
1991 054B	TORS-5	21639	US	2 AUG	1436.3	0.0	35805	35774		
1991 054C		21640	US	2 AUG	628.9	29.3	35572	302		
1991 054D		21641	US	2 AUG	1436.0	1.3	35925	35645		
1991 054E		21642	US	2 AUG	618.8	27.0	35079	271		

OBJECTS IN ORBIT

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ. (MHZ)	NOTES
1991 LAUNCHES (CONT.)										
1991 055A	INTELSAT 6 F-5	21653	ITSO	14 AUG	1436.2	0.0	35845	35732		
1991 055B		21654	ESA	14 AUG	632.7	7.2	35787	282		
1991 056A	METEOR 3-5	21655	USSR	15 AUG	109.3	82.6	1203	1185		
1991 056B		21656	USSR	15 AUG	109.3	82.6	1202	1184		
1991 059A	COSMOS 2154	21666	USSR	22 AUG	104.8	82.9	1004	969		
1991 059B		21667	USSR	22 AUG	104.7	82.9	1000	963		
1991 060A	BS-38	21668	JAPAN	25 AUG	1436.1	0.1	35796	35775		
1991 060C		21670	JAPAN	25 AUG	654.0	28.6	36944	216		
1991 061A		121688	INDIA	29 AUG	103.1	99.1	916	890		
1991 061B		121689	INDIA	29 AUG	102.8	99.3	913	866		
1991 062A	SOLAR-A	21694	JAPAN	30 AUG	97.8	31.3	783	522		
1991 062B		21695	JAPAN	30 AUG	97.7	31.3	781	519		
1991 062C		21696	JAPAN	30 AUG	97.1	31.4	730	509		
1991 062D		21697	JAPAN	30 AUG	97.1	31.3	732	510		
1991 062E		21698	JAPAN	30 AUG	97.1	31.3	728	508		
1991 062F		21699	JAPAN	30 AUG	97.2	31.4	737	512		
1991 062H		21802	JAPAN	30 AUG	98.0	31.5	756	569		
1991 063B	UARS	21701	US	12 SEP	96.2	57.0	579	573		
1991 064A	COSMOS 2155	21702	USSR	13 SEP	1436.2	1.1	35815	35763		
1991 064B		21703	USSR	13 SEP	1441.5	1.1	35910	35872		
1991 064E		21739	USSR	13 SEP	645.8	47.3	36580	162		
1991 064F		21740	USSR	13 SEP	645.7	47.1	36521	214		
1991 065A	MOLNIYA 3-41	21706	USSR	17 SEP	717.7	62.9	39721	627		
1991 065D		21709	USSR	17 SEP	733.2	63.0	40494	617		
1991 067A	ANIK E1	21726	CANADA	26 SEP	1436.2	0.0	35796	35779		
1991 067B		21727	ESA	26 SEP	639.0	3.9	35970	424		
1991 068A	COSMOS 2157	21728	USSR	29 SEP	114.0	82.6	1411	1405		
1991 068B	COSMOS 2158	21729	USSR	29 SEP	113.9	82.6	1406	1402		
1991 068C	COSMOS 2159	21730	USSR	29 SEP	113.7	82.6	1406	1387		
1991 068D	COSMOS 2160	21731	USSR	29 SEP	113.8	82.6	1407	1397		
1991 068E	COSMOS 2161	21732	USSR	29 SEP	113.8	82.6	1406	1393		
1991 068F	COSMOS 2162	21733	USSR	29 SEP	114.0	82.6	1417	1405		
1991 068G		21734	USSR	29 SEP	114.7	82.6	1478	1406		
1991 072B		21744	USSR	10 OCT	92.7	74.0	551	259		
1991 074D		21762	USSR	23 OCT	1444.2	1.4	35958	35932		
1991 074E		21763	USSR	23 OCT	635.5	47.2	35970	243		
1991 074F		21764	USSR	23 OCT	629.0	47.1	35685	195		
1991 075B		21766	ESA	29 OCT	625.7	9.9	35439	268		
1991 076A	USA 72	21775	US	8 NOV	ELEMENTS NOT AVAILABLE					
1991 076B		21776	US	8 NOV	ELEMENTS NOT AVAILABLE					
1991 076C		21799	US	8 NOV	ELEMENTS NOT AVAILABLE					
1991 076D		21806	US	8 NOV	ELEMENTS NOT AVAILABLE					
1991 076E		21809	US	8 NOV	ELEMENTS NOT AVAILABLE					
1991 077A	COSMOS 2165	21779	USSR	12 NOV	113.8	82.6	1409	1392		
1991 077B	COSMOS 2166	21780	USSR	12 NOV	113.9	82.6	1409	1405		
1991 077C	COSMOS 2167	21781	USSR	12 NOV	113.9	82.6	1409	1398		
1991 077D	COSMOS 2168	21782	USSR	12 NOV	113.8	82.6	1409	1388		
1991 077E	COSMOS 2169	21783	USSR	12 NOV	113.7	82.6	1409	1381		
1991 077F	COSMOS 2170	21784	USSR	12 NOV	114.0	82.6	1412	1409		
1991 077G		21785	USSR	12 NOV	114.7	82.6	1472	1409		

INTER- NATIONAL DESIGNATION	NAME	OBJECTS IN ORBIT				PERIOD MINUTES	INCLI- NATION	APOGEE KM.	PERIGEE KM.	TRANSMITTING FREQ.(MHZ)	NOTES
		CATALOG NUMBER	SOURCE	LAUNCH							
1991 LAUNCHES (CONT.)											
1991 078A	COSMOS 2171	21787	USSR	20 NOV	89.6	62.8		335	173		
1991 079A	COSMOS 2172	21789	USSR	22 NOV	1436.1	1.3		35793	35779		
1991 079D		21792	USSR	22 NOV	1460.2	1.3		36292	36220		
1991 079E		21793	USSR	22 NOV	641.0	47.1		35251	246		
1991 079F		21794	USSR	22 NOV	643.3	47.2		36322	293		
1991 080R	USA 75	21805	US	25 NOV	ELEMENTS NOT AVAILABLE						
1991 080C		21806	US	25 NOV	ELEMENTS NOT AVAILABLE						
1991 080U		21807	US	25 NOV	ELEMENTS NOT AVAILABLE						
1991 081A	COSMOS 2173	21796	USSR	26 NOV	104.7	83.0		1016	943		
1991 081B		21797	USSR	26 NOV	104.6	83.0		1004	943		
1991 082A	USA 73	21798	US	28 NOV	101.8	98.9		855	835		
1991 082B		21800	US	28 NOV	101.8	98.9		847	838		
1991 082C		21801	US	28 NOV	101.8	98.9		848	838		
1991 082D		21825	US	28 NOV	101.8	98.9		852	835		
1991 083A	EUTELSAT II	21803	ESA	7 DEC	1436.1	0.0		35790	35783		
1991 083B		21804	ESA	7 DEC	753.7	16.9		41257	853		
1991 084A	TELECOM 2A	21813	FRANCE	16 DEC	766.9	1.9		35768	6987		
1991 084B	INMARSAT 2 F-3	21814	ITSO	16 DEC	715.6	3.4		35803	4475		
1991 084C		21815	ESA	16 DEC	645.2	3.8		36331	379		
1991 084D		21818	ESA	16 DEC	633.7	3.9		35799	322		
1991 085A	COSMOS 2174 INTERCOSMOS 25	21816	USSR	17 DEC	89.2	64.8		257	208		
1991 086A		21819	USSR	18 DEC	121.6	82.6		3067	435		
1991 086B		21820	USSR	18 DEC	121.6	82.6		3066	434		
1991 086C		21826	USSR	18 DEC	121.4	82.6		3050	436		
1991 086D		21827	USSR	18 DEC	121.5	82.5		3062	435		
1991 086E	MAGION 3 RADUGA 28	21835	CZECH	18 DEC	121.6	82.6		3066	435		
1991 087A		21821	USSR	19 DEC	1436.6	1.5		35829	35762		
1991 087D		21824	USSR	19 DEC	1469.9	1.5		36526	36366		
1991 087E		21828	USSR	19 DEC	644.6	47.2		36267	413		
1991 087F		21829	USSR	19 DEC	647.6	47.3		36499	334		
1991 088A	PRC 34	21833	PRC	28 DEC	617.8	31.6		35087	212		
1991 088B		21834	PRC	28 DEC	112.1	31.1		2426	218		

FOOTNOTES

- 1* 297 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 2* 153 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1963 014A, 1963 014B, AND 1963 014C. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 3* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1963 047A. THE OBJECT OF THIS SERIES THAT HAS DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 4* 29 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1964 006A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 5* 51 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 027A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 6* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH OR COUNTRY OF ORIGIN.
- 7* 472 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 082A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 8* 110 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 9* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON AND RETURNED TO SELENDOCENTRIC ORBIT.
- 10* 139 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 097A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 11* 270 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 082A, 1969 082B, 1969 082C, 1969 082D, 1969 082E, 1969 082F, 1969 082G, 1969 082H, 1969 082J, AND 1969 082K. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 12* 368 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 025A AND 1970 025B. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 13* 103 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 089A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 14* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCH.

FOOTNOTES (CONT)

- 15* 46 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1970 091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 16* 120 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 015A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 17* 229 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1972 058A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 18* 198 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 086A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 19* 150 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 089A, 1974 089B, AND 1974 089C. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 20* 208 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 004A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 21* 71 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 067A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 22* 159 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 077A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 23* 14 OBJECT HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 105A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 24* 51 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 120A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 25* 79 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 126A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 26* 172 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 065A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 27* 70 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 121A. THE OBJECT OF THIS SERIES THAT HAS DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

FOOTNOTES (CONT)

- 28* 210 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1978 026A AND 1978 026B. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 29* 400 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1978 100A, 1978 100B, AND 1978 100C. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 30* 288 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1979 017A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 31* 47 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 030A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 32* 80 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 089A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 33* 69 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981 028A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 34* 307 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981 053A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 35* DEPLOYED FROM SPACE TRANSPORTATION VEHICLE.
- 36* 33 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 115A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 37* 60 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 055A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 38* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1983 091A. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 39* 164 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1983 044A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 40* 30 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1984 104A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 41* 46 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1984 083A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

FOOTNOTES (CONT)

- 42* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1985 082A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 43* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1985 030A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 44* 30 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1986 024A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 45* 499 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1986 019A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 46* 53 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1986 067A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 47* 132 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1986 017A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 48* 195 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1987 004A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 49* 112 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1987 020A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 50* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1988 065A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 51* 40 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1989 100A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 52* 78 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1990 081A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 53* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1990 105A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.
- 54* 69 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1991 009A. OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE SITUATION REPORT.

FOOTNOTES (CONT)

- 55* 12 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1990 104A.
OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED
OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE
SITUATION REPORT.
- 56* 230 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 052A.
OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED
OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE
SITUATION REPORT.
- 57* 16 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1990 065A.
OBJECTS IN THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED
OBJECTS LIST IN THE DECEMBER 31 END-OF-THE-YEAR SUMMARY SATELLITE
SITUATION REPORT.

INITIAL ELEMENTS OF OBJECTS WHICH WERE LAUNCHED/CATALOGED AND DECAYED WITHIN THE REPORTING PERIOD

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	PERIOD MINUTES	INCLIN- NATION	APOGEE KM.	PERIGEE KM.	NOTES
1989 100AK	FOTON 4	21769	USSR	27 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1989 100AL		21770	USSR	27 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1989 100AM		21771	USSR	27 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1989 100AN		21772	USSR	27 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1989 100AP		21773	USSR	27 DEC	INITIAL ELEMENTS NOT AVAILABLE				
1991 0698		21736	USSR	2 OCT	85.5	56.1	81	52	
1991 070A		21737	USSR	4 OCT	90.2	62.8	381	215	
1991 070B		21738	USSR	4 OCT	85.8	62.7	88	69	
1991 070C		21755	USSR	4 OCT	85.2	62.7	58	38	
1991 070D		21756	USSR	4 OCT	87.1	62.8	162	105	
1991 070E		21757	USSR	4 OCT	86.2	62.7	105	86	
1991 071B		21742	USSR	9 OCT	86.9	64.7	146	122	
1991 072C		21745	USSR	10 OCT	86.8	73.9	174	90	
1991 073B		21747	USSR	17 OCT	85.0	51.6	46	30	
1991 0748		21760	USSR	23 OCT	85.0	51.6	43	29	
1991 074C		21761	USSR	23 OCT	86.7	51.6	132	119	
1991 078B		21788	USSR	20 NOV	88.5	62.7	260	173	
1991 079B		21790	USSR	22 NOV	88.2	51.6	210	188	
1991 079C		21791	USSR	22 NOV	88.3	51.6	222	194	
1991 085B		21817	USSR	17 DEC	88.4	64.8	259	160	
1991 087B		21822	USSR	19 DEC	88.2	51.6	208	188	
1991 087C		21823	USSR	19 DEC	INITIAL ELEMENTS NOT AVAILABLE				

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
OMICRON 13		413	US	29 JUN	5 NOV 91	
OMICRON 20		662	US	29 JUN	27 DEC 91	
1963 022C		610	US	16 JUN	15 NOV 91	
1963 047R		14529	US	27 NOV	15 OCT 91	
1965 082MV		3383	US	15 OCT	29 OCT 91	
1965 082PX		3466	US	15 OCT	18 NOV 91	
1965 082QU		3498	US	15 OCT	27 OCT 91	
1965 082TF		5376	US	15 OCT	7 DEC 91	
1967 014P		18929	FRANCE	15 FEB	10 NOV 91	
1967 039B		2763	USSR	27 APR	27 OCT 91	
1967 045C		2823	USSR	15 MAY	21 DEC 91	
1967 092G		17176	US	25 SEP	3 OCT 91	
1967 102B		3011	USSR	24 OCT	19 DEC 91	
1968 097AC		3685	USSR	1 NOV	2 OCT 91	
1969 064AA		13914	US	26 JUL	23 OCT 91	
1969 082AQ		4172	US	30 SEP	24 OCT 91	
1969 082JR		5757	US	30 SEP	20 DEC 91	
1969 082KV		17659	US	30 SEP	26 OCT 91	
1969 082KX		17661	US	30 SEP	20 DEC 91	
1970 025AE		4646	US	8 APR	25 OCT 91	
1970 025FF		4908	US	8 APR	27 OCT 91	
1970 089BN		5295	USSR	23 OCT	16 DEC 91	
1970 089DA		15782	USSR	23 OCT	8 DEC 91	
1971 015AB		5102	USSR	25 FEB	9 NOV 91	
1972 011A	COSMOS 476	5852	USSR	1 MAR	23 OCT 91	
1972 058CC		7934	US	23 JUL	8 DEC 91	
1975 004CJ		9000	US	22 JAN	13 DEC 91	
1975 052EK		21451	US	29 OCT 91	29 OCT 91	
1975 052FC		21468	US	12 JUN	12 NOV 91	
1975 052FX		21502	US	12 JUN	12 NOV 91	
1975 052GA		21505	US	12 JUN	24 OCT 91	
1975 052GF		21510	US	12 JUN	31 OCT 91	
1975 052GP		21518	US	12 JUN	29 OCT 91	
1975 052GQ		21519	US	12 JUN	13 NOV 91	
1975 052GR		21520	US	12 JUN	21 NOV 91	
1975 052GT		21522	US	12 JUN	10 NOV 91	
1975 052HH		21563	US	12 JUN	9 OCT 91	
1975 052HJ		21564	US	12 JUN	3 OCT 91	
1975 052HP		21569	US	12 JUN	16 NOV 91	
1975 052HU		21600	US	12 JUN	10 NOV 91	
1975 052HX		21671	US	12 JUN	27 OCT 91	
1975 052HZ		21673	US	12 JUN	11 NOV 91	
1975 052JB		21675	US	12 JUN	1 DEC 91	
1975 052JF		21679	US	12 JUN	19 OCT 91	
1975 052JM		21685	US	12 JUN	1 NOV 91	
1975 056A	COSMOS 744	7968	USSR	20 JUN	12 OCT 91	
1977 014B		9859	JAPAN	23 FEB	14 NOV 91	
1978 026EJ		12289	US	5 MAR	10 NOV 91	
1978 026FX		14457	US	5 MAR	26 DEC 91	
1978 042B		10853	US	1 MAY	21 OCT 91	
1978 093B		11078	US	7 OCT	25 DEC 91	

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 017KF		17781	US	24 FEB	10 NOV 91	
1979 017KM		17825	US	24 FEB	22 OCT 91	
1981 053C8		12734	USSR	4 JUN	4 NOV 91	
1981 053DT		12774	USSR	4 JUN	7 OCT 91	
1981 053GS		13760	USSR	4 JUN	9 NOV 91	
1981 060A	MOLNIYA 1-50	12556	USSR	24 JUN	14 DEC 91	
1981 115A		12968	USSR	20 NOV	30 NOV 91	
1982 1188	BHASKARA 2	13737	INDIA	21 DEC	1 OCT 91	
1982 118E		13774	US	21 DEC	29 OCT 91	
1983 022B		13924	US	28 MAR	12 OCT 91	
1983 113C		14554	US	18 NOV	2 OCT 91	
1986 017DE		21240	US	19 FEB	11 NOV 91	
1986 017DP		21414	USSR	19 FEB	20 OCT 91	
1986 017DS		21417	USSR	19 FEB	30 OCT 91	
1986 017DV		21425	USSR	17 JUN	18 OCT 91	
1986 017DZ		21481	USSR	19 FEB	16 DEC 91	
1986 017EV		21603	USSR	19 FEB	5 OCT 91	
1986 017EX		21619	USSR	19 FEB	18 DEC 91	
1986 017EZ		21625	USSR	19 FEB	6 DEC 91	
1986 017FA		21626	USSR	19 FEB	3 OCT 91	
1986 017FB		21627	USSR	19 FEB	3 DEC 91	
1986 017FC		21628	USSR	19 FEB	7 OCT 91	
1986 0190Q		17343	ESA	22 FEB	27 DEC 91	
1987 012A	ASTRO C	17430	JAPAN	5 FEB	1 NOV 91	
1987 0200K		20225	USSR	20 FEB	12 OCT 91	
1988 108E		19591	USSR	8 DEC	13 NOV 91	
1989 085C		20304	US	21 OCT	5 DEC 91	
1989 100AH		21767	USSR	27 DEC	23 NOV 91	
1989 100AJ		21768	USSR	27 DEC	22 NOV 91	
1989 100AK		21769	USSR	27 DEC	21 NOV 91	
1989 100AL		21770	USSR	27 DEC	22 NOV 91	
1989 100AM		21771	USSR	27 DEC	22 NOV 91	
1989 100AN		21772	USSR	27 DEC	29 NOV 91	
1989 100AP		21773	USSR	27 DEC	27 NOV 91	
1989 100AQ		21774	USSR	27 DEC	6 DEC 91	
1990 038B		20582	USSR	25 APR	30 DEC 91	
1990 091D		20875	ESA	12 OCT	2 OCT 91	
1990 100D		20948	ESA	20 NOV	6 NOV 91	
1991 034A	SOYUZ TM-12	21311	USSR	18 MAY	10 OCT 91	
1991 047B	LOSAT-X	21553	US	4 JUL	15 NOV 91	
1991 047C		21554	US	4 JUL	29 OCT 91	
1991 051H		21587	US	17 JUL	8 NOV 91	
1991 066A	COSMOS 2156	21713	USSR	19 SEP	17 NOV 91	
1991 069B		21735	USSR	2 OCT	3 OCT 91	
1991 070A	PHOTON 4	21737	USSR	4 OCT	20 OCT 91	
1991 070B		21738	USSR	4 OCT	16 OCT 91	
1991 070C		21755	USSR	4 OCT	25 OCT 91	
1991 070D		21756	USSR	4 OCT	25 OCT 91	
1991 070E		21757	USSR	4 OCT	27 OCT 91	
1991 070F		21758	USSR	4 OCT	9 NOV 91	
1991 071A	COSMOS 2163	21741	USSR	9 OCT	7 DEC 91	

OBJECTS DECAYED WITHIN THE REPORTING PERIOD

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1991 0718		21742	USSR	9 OCT	12 OCT 91	
1991 072C		21745	USSR	10 OCT	25 OCT 91	
1991 0738		21747	USSR	17 OCT	19 OCT 91	
1991 0748		21760	USSR	23 OCT	25 OCT 91	
1991 074C		21761	USSR	23 OCT	24 OCT 91	
1991 0788		21788	USSR	20 NOV	24 NOV 91	
1991 0798		21790	USSR	22 NOV	24 NOV 91	
1991 079C		21791	USSR	22 NOV	23 NOV 91	
1991 080A	STS 44	21795	US	24 NOV	1 DEC 91	
1991 0858		21817	USSR	17 DEC	22 DEC 91	
1991 0878		21822	USSR	19 DEC	21 DEC 91	
1991 087C		21823	USSR	19 DEC	20 DEC 91	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1957 LAUNCHES						
ALPHA 1		1	USSR	4 OCT	1 DEC 57	
ALPHA 2	SPUTNIK 1	2	USSR	4 OCT	EARLY JAN 53	
BETA 1	SPUTNIK 2	3	USSR	3 NOV	14 APR 58	
1958 LAUNCHES						
ALPHA 1	EXPLORER 1	4	US	1 FEB	31 MAR 70	
GAMMA 1	EXPLORER 3	6	US	26 MAR	28 JUN 58	
DELTA 1		7	USSR	15 MAY	3 DEC 58	
DELTA 2	SPUTNIK 3	8	USSR	15 MAY	6 APR 60	
EPSILON 1	EXPLORER 4	9	US	26 JUL	23 OCT 59	
ZETA 1	SCORE	10	US	18 DEC	21 JAN 59	
ETA 1	PIONEER 1	110	US	11 OCT	12 OCT 58	
THETA 1	PIONEER 3	111	US	5 DEC	7 DEC 58	
1959 LAUNCHES						
ALPHA 4		14934	US	17 FEB	25 DEC 85	
ALPHA 3		5807	JS	17 FEB	22 NOV 82	
BETA 1	DISCOVERER 1	13	US	28 FEB	EARLY MAR 59	
GAMMA 1	DISCOVERER 2	14	US	13 APR	26 APR 59	
DELTA 1	EXPLORER 6	15	US	7 AUG	OR JUL 61	
DELTA 2		17	US	7 AUG	PRIOR JUL 61	
EPSILON 1	DISCOVERER 5	18	US	13 AUG	28 SEP 59	
EPSILON 2	CAPSULE	26	US	13 AUG	11 FEB 61	
ZETA 1	DISCOVERER 6	19	US	19 AUG	20 OCT 59	
THETA 1	LUNA 3	21	USSR	4 OCT	29 APR 60	
IOTA 2		23	US	13 OCT	16 JUL 89	
KAPPA 1	DISCOVERER 7	24	US	7 NOV	26 NOV 59	
LAMBDA 1	DISCOVERER 8	25	US	20 NOV	8 MAR 60	
XI 1	LUNA 2	114	USSR	12 SEP	15 SEP 59	A*
1960 LAUNCHES						
BETA 1		28	US	1 APR	2 JUL 91	
BETA 3		101	US	1 APR	17 APR 83	
GAMMA 1		30	US	13 APR	18 AUG 60	
GAMMA 2		31	US	13 APR	5 OCT 67	
GAMMA 3		33	US	13 APR	JUL 60	
GAMMA 4		99	US	13 APR	17 JUL 79	
DELTA 1	DISCOVERER 11	32	US	15 APR	26 APR 60	
EPSILON 1	SPUTNIK 4	34	USSR	15 MAY	5 SEP 62	
EPSILON 2		35	USSR	15 MAY	17 JUL 60	
EPSILON 3		36	USSR	15 MAY	15 OCT 65	
EPSILON 4		37	USSR	15 MAY	PRIOR JUL 61	
EPSILON 5		38	USSR	15 MAY	SEP - OCT 60	
EPSILON 6		39	USSR	15 MAY	24 SEP 60	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1960 LAUNCHES (CONT.)						
EPSILON 7		40	USSR	15 MAY	24 SEP 60	
EPSILON 8		41	USSR	15 MAY	SEP - OCT 60	
EPSILON 9		42	USSR	15 MAY	SEP - OCT 60	
ZETA 1	MIDAS 2	43	US	24 MAY	7 FEB 74	
ZETA 2		44	US	24 MAY	5 DEC 60	
THETA 1	DISCOVERER 13	48	US	10 AUG	14 NOV 60	B*
THETA 1	CAPSULE	NNA	US	10 AUG	11 AUG 60	
IOTA 1	ECHO 1	49	US	12 AUG	24 MAY 68	
KAPPA 1	DISCOVERER 14	54	US	18 AUG	16 SEP 60	
KAPPA 1	CAPSULE	NNA	US	18 AUG	19 AUG 60	B*
LAMBDA 1	SPUTNIK 5	55	USSR	19 AUG	20 AUG 60	C*
LAMBDA 2		56	USSR	19 AUG	23 SEP 60	
MU 1	DISCOVERER 15	57	US	13 SEP	18 OCT 60	
MU 1	CAPSULE	NNA	US	13 SEP	15 SEP 60	D*
TAU 1	DISCOVERER 19	68	US	20 DEC	23 JAN 61	
XI 2		62	US	3 NOV	27 OCT 85	
XI 3		69	US	3 NOV	16 FEB 70	
XI 4		105	US	3 NOV	3 MAR 72	
OMICRON 1	DISCOVERER 17	61	US	12 NOV	29 DEC 60	
OMICRON 1	CAPSULE	NNA	US	12 NOV	14 NOV 60	
PI 2		64	US	23 NOV	23 SEP 81	
PI 3		74	US	23 NOV	10 MAY 89	
PI 4		75	US	23 NOV	25 JAN 90	
RHO 1	SPUTNIK 6	65	USSR	1 DEC	2 DEC 60	
RHO 2		66	USSR	1 DEC	2 DEC 60	
SIGMA 1	DISCOVERER 18	67	US	7 DEC	2 APR 61	
SIGMA 1	CAPSULE	NNA	US	7 DEC	10 DEC 60	B*
1961 LAUNCHES						
OMICRON 282		18498	US	29 JUN	21 NOV 89	
ALPHA 1	SAMOS 2	70	US	31 JAN	21 OCT 73	
ALPHA 2		79	US	31 JAN	9 OCT 70	
BETA 1	SPUTNIK 7	71	USSR	4 FEB	26 FEB 61	
BETA 2		72	USSR	4 FEB	12-13 FEB 61	
BETA 3		73	USSR	4 FEB	17 MAR 61	
GAMMA 2		76	USSR	12 FEB	18 FEB 61	
GAMMA 3		77	USSR	12 FEB	25 FEB 61	
GAMMA 4		78	USSR	12 FEB	13-18 FEB 61	
DELTA 1	EXPLORER 9	81	US	16 FEB	9 APR 64	
DELTA 4		86	US	16 FEB	PRIOR JUL 61	
DELTA 5		3738	US	16 FEB	29 MAR 82	
DELTA 8		5237	US	16 FEB	20 JUL 74	
EPSILON 1	DISCOVERER 20	83	US	17 FEB	28 JUL 62	
EPSILON 2		88	US	17 FEB30	MAR-2 APR 61	
EPSILON 3		89	US	17 FEB	20 APR 61	
EPSILON 4		90	US	17 FEB	31 OCT 61	
ZETA 1	DISCOVERER 21	84	US	18 FEB	20 APR 62	
ETA 1	TRANSIT 38 & LOFT 1	87	US	22 FEB	30 MAR 61	
THETA 1	SPUTNIK 9	91	USSR	9 MAR	9 MAR 61	C*

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1961 LAUNCHES (CONT.)						
THETA 2		92	USSR	9 MAR	10 MAR 61	
THETA 3		93	USSR	9 MAR	10 MAR 61	
THETA 4		94	USSR	9 MAR	10 MAR 61	
IOTA 1	SPUTNIK 10	95	USSR	25 MAR	25 MAR 61	
IOTA 2		96	USSR	25 MAR	26 MAR 61	
IOTA 3		97	USSR	25 MAR	26 MAR 61	
KAPPA 1	EXPLORER 10	98	US	25 MAR	?? JUN 68	
LAMBDA 1	DISCOVERER 23	100	US	8 APR	16 APR 62	
LAMBDA 2	CAPSULE	102	US	8 APR	23 MAY 62	
LAMBDA 3		106	US	8 APR	10 SEP 61	
MU 1	VOSTOK 1	103	USSR	12 APR	12 APR 61	E*
MU 2		104	USSR	12 APR	16 APR 61	
XI 1	DISCOVERER 25	108	US	16 JUN	12 JUL 61	
XI 1	CAPSULE	MNA	US	16 JUN	18 JUN 61	B*
XI 2		109	US	16 JUN	19 JUN 61	
OMICRON 14		129	US	29 JUN	31 AUG 81	
OMICRON 22		137	US	29 JUN	15 DEC 80	
OMICRON 24		139	US	29 JUN	8 JUL 78	
OMICRON 25		140	US	29 JUN	30 SEP 62	
OMICRON 27		142	US	29 JUN	25 DEC 67	
OMICRON 28		143	US	29 JUN	16 JUN 62	
OMICRON 31		146	US	29 JUN	7 JUL 69	
OMICRON 34		149	US	29 JUN	3 MAR 79	
OMICRON 36		151	US	29 JUN	2 DEC 67	
OMICRON 38		153	US	29 JUN	22 APR 81	
OMICRON 42		157	US	29 JUN	8 JAN 81	
OMICRON 45		161	US	29 JUN	29 AUG 81	
OMICRON 46		171	US	29 JUN	29 JAN 62	
OMICRON 49		176	US	29 JUN	12 FEB 82	
OMICRON 56		216	US	29 JUN	13 NOV 89	
OMICRON 57		220	US	29 JUN	21 FEB 66	
OMICRON 62		231	US	29 JUN	13 FEB 65	
OMICRON 67		236	US	29 JUN	13 MAY 69	
OMICRON 68		237	US	29 JUN	12 APR 69	
OMICRON 69		238	US	29 JUN	7 DEC 69	
OMICRON 70		239	US	29 JUN	17 JUN 67	
OMICRON 75		250	US	29 JUN	13 SEP 81	
OMICRON 84		265	US	29 JUN	12 OCT 78	
OMICRON 88		307	US	29 JUN	15 DEC 79	
OMICRON 89		301	US	29 JUN	8 APR 81	
OMICRON 90		317	US	29 JUN	11 JAN 81	
OMICRON 92		319	US	29 JUN	23 JUL 81	
OMICRON 94		321	US	29 JUN	26 FEB 69	
OMICRON 95		322	US	29 JUN	6 JUN 69	
OMICRON 99		326	US	29 JUN	7 OCT 79	
OMICRON 101		328	US	29 JUN	3 MAY 70	
OMICRON 105		332	US	29 JUN	20 SEP 70	
OMICRON 113		352	US	29 JUN	10 DEC 66	
OMICRON 117		356	US	29 JUN	2 FEB 81	
OMICRON 119		358	US	29 JUN	31 AUG 66	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1961 LAUNCHES (CONT.)						
OMICRON 120		359	US	29 JUN	31 AUG 65	
OMICRON 131		411	US	29 JUN	20 JUN 78	
OMICRON 132		412	US	29 JUN	30 JUN 80	
OMICRON 133		413	US	29 JUN	2 DEC 89	
OMICRON 145		464	US	29 JUN	18 DEC 89	
OMICRON 149		468	US	29 JUN	3 DEC 81	
OMICRON 154		473	US	29 JUN	2 MAR 72	
OMICRON 158		477	US	29 JUN	18 JAN 82	
OMICRON 164		531	US	29 JUN	15 APR 71	
OMICRON 175		547	US	29 JUN	20 NOV 89	
OMICRON 182		557	US	29 JUN	14 FEB 67	
OMICRON 190		646	US	29 JUN	7 JUN 72	
OMICRON 194		650	US	29 JUN	27 MAY 82	
OMICRON 198		654	US	29 JUN	3 JUL 63	
OMICRON 208		1501	US	29 JUN	23 JAN 79	
OMICRON 211		2010	US	29 JUN	6 MAY 80	
OMICRON 212		2087	US	29 JUN	13 MAR 79	
OMICRON 213		3037	US	29 JUN	1 FEB 68	
OMICRON 218		3740	US	29 JUN	25 DEC 74	
OMICRON 224		3968	US	29 JUN	3 JUN 69	
OMICRON 225		3969	US	29 JUN	27 JUN 69	
OMICRON 230		4027	US	29 JUN	19 DEC 70	
OMICRON 234		5716	US	29 JUN	9 APR 82	
OMICRON 237		5747	US	29 JUN	3 JAN 77	
OMICRON 242		5787	US	29 JUN	28 AUG 74	
OMICRON 247		5877	US	29 JUN	1 MAY 79	
OMICRON 248		5972	US	29 JUN	30 OCT 76	
OMICRON 249		5985	US	29 JUN	7 DEC 76	
OMICRON 250		6179	US	29 JUN	20 NOV 76	
OMICRON 251		6746	US	29 JUN	21 DEC 74	
OMICRON 256		9969	US	29 JUN	5 APR 78	
OMICRON 278		17711	US	29 JUN	29 DEC 89	
PI 1	DISCOVERER 26	160	US	7 JUL	5 DEC 61	B*
PI 1	CAPSULE	NNA	US	7 JUL	9 JUL 61	
SIGMA 2		164	US	12 JUL	24 JUL 61	
SIGMA 5		6215	US	12 JUL	30 OCT 76	
TAU 1	VOSTOK 2	168	USSR	6 AUG	7 AUG 61	F*
TAU 2		169	USSR	6 AUG	9 AUG 61	
UPSILON 1	EXPLORER 12	170	US	16 AUG	22 SEP 63	
PHI 1	RANGER 1	173	US	23 AUG	30 AUG 61	
PHI 2		174	US	23 AUG	3 SEP 61	
CHI 1	EXPLORER 13	180	US	25 AUG	28 AUG 61	
PSI 1	DISCOVERER 29	181	US	30 AUG	10 SEP 61	
PSI 1	CAPSULE	NNA	US	30 AUG	4 SEP 61	
OMEGA 1	DISCOVERER 30	182	US	12 SEP	11 DEC 61	B*
OMEGA 1	CAPSULE	NNA	US	12 SEP	15 SEP 61	
OMEGA 2		185	US	12 SEP	18 SEP 61	
OMEGA 3		187	US	12 SEP	28 SEP 61	
A-ALPHA 1	MA 4	183	US	13 SEP	13 SEP 61	B*
A-ALPHA 2		184	US	13 SEP	13 SEP 61	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1961 LAUNCHES (CONT.)						
A-BETA 1	DISCOVERER 31	186	US	17 SEP	26 OCT 61	
A-GAMMA 1	DISCOVERER 32	189	US	13 OCT	13 NOV 61	
A-GAMMA 1	CAPSULE	NNA	US	13 OCT	14 OCT 61	8*
A-GAMMA 2		190	US	13 OCT	25 OCT 61	8*
A-GAMMA 3		191	US	13 OCT	16 OCT 61	
A-DELTA 2		193	US	21 OCT	5 DEC 61	
A-EPSILON 1	DISCOVERER 34	197	US	5 NOV	7 DEC 62	
A-EPSILON 2		198	US	5 NOV	30 NOV 61	
A-EPSILON 3		199	US	5 NOV	9 DEC 61	
A-EPSILON 4		200	US	5 NOV	10 DEC 61	
A-EPSILON 5		203	US	5 NOV	12 DEC 61	
A-ZETA 1	DISCOVERER 35	201	US	15 NOV	3 DEC 61	
A-ZETA 1	CAPSULE	NNA	US	15 NOV	16 NOV 61	8*
A-ZETA 2		207	US	15 NOV	23 NOV 61	
A-THETA 1	RANGER 2	206	US	18 NOV	20 NOV 61	
A-IOTA 1	MA 5	208	US	29 NOV	29 NOV 61	8*
A-IOTA 2		209	US	29 NOV	30 NOV 61	
A-KAPPA 1	DISCOVERER 36	213	US	12 DEC	8 MAR 62	
A-KAPPA 1	CAPSULE	NNA	US	12 DEC	16 DEC 61	8*
A-KAPPA 2	OSCAR 1	214	US	12 DEC	31 JAN 62	
A-KAPPA 3		215	US	12 DEC	19 DEC 61	
A-LAMBDA 1		217	US	22 DEC	14 AUG 62	
A-LAMBDA 2		218	US	22 DEC	31 DEC 61	
A-LAMBDA 3		219	US	22 DEC	9 JAN 62	
1962 LAUNCHES						
GAMMA 1	FRIENDSHIP 7	240	US	20 FEB	20 FEB 62	F*
GAMMA 2		241	US	20 FEB	21 FEB 62	
DELTA 1		242	US	21 FEB	4 MAR 62	
EPSILON 1	DISCOVERER 38	247	US	27 FEB	21 MAR 62	
EPSILON 1	CAPSULE	NNA	US	27 FEB	3 MAR 62	8*
EPSILON 2		248	US	27 FEB	3 MAR 62	
EPSILON 3		249	US	27 FEB	3 MAR 62	
EPSILON 4		251	US	27 FEB	7 MAR 62	
ZETA 1	OSO 1	255	US	7 MAR	8 OCT 81	
ZETA 2		257	US	7 MAR	3 MAY 70	
ETA 1		256	US	7 MAR	7 JUN 63	
ETA 2		258	US	7 MAR	31 MAR 62	
ETA 3		259	US	7 MAR	3 NOV 62	
THETA 1	COSMOS 1	266	USSR	16 MAR	25 MAY 62	
THETA 2		267	USSR	16 MAR	18 JUN 62	
IOTA 1	COSMOS 2	269	USSR	6 APR	19-20 AUG 63	
IOTA 2		270	USSR	6 APR	6 OCT 62	
KAPPA 2		272	US	9 APR	4 MAY 62	
KAPPA 5		4494	US	9 APR	22 MAY 77	
KAPPA 6		5703	US	9 APR	7 NOV 76	
LAMBDA 1		276	US	18 APR	28 MAY 62	
LAMBDA 2		277	US	18 APR	20 APR 62	
LAMBDA 3		278	US	18 APR	21 APR 62	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
LAMBDA 4		279	US	18 APR	21 APR 62	
NU 1	RANGER 4	280	US	23 APR	26 APR 62	G*
NU 1	COSMOS 3	281	USSR	24 APR	17 OCT 62	
NU 2		283	USSR	24 APR	5 AUG 62	
XI 1	COSMOS 4	287	USSR	26 APR	29 APR 62	
XI 2		284	USSR	26 APR	17 JUN 62	
XI 3		289	USSR	26 APR	3 MAY 62	
OMICRON 1	ARIEL 1	285	UK	26 APR	24 MAY 76	
OMICRON 2		288	US	26 APR	28 APR 71	
PI 1		286	US	26 APR	28 APR 62	
RHO 1		290	US	29 APR	26 MAY 62	
RHO 2		291	US	29 APR	1 MAY 62	
SIGMA 1		292	US	15 MAY	26 NOV 63	
SIGMA 2		293	US	15 MAY	3 JUL 62	
SIGMA 3		294	US	15 MAY	13 JUL 62	
TAU 1	AURORA 7	295	US	15 MAY	24 MAY 62	F*
TAU 2		296	US	24 MAY	25 MAY 62	
UPSILON 1	COSMOS 5	297	USSR	28 MAY	2 MAY 63	
UPSILON 2		298	USSR	28 MAY	15 DEC 62	
PHI 1		302	US	30 MAY	11 JUN 62	
PHI 2		303	US	30 MAY	2 JUN 62	
CHI 1	OSCAR 2	304	US	2 JUN	28 JUN 62	
CHI 2		305	US	2 JUN	21 JUN 62	
CHI 3		306	US	2 JUN	6 JUN 62	
PSI 1		307	US	17 JUN	18 JUN 62	
OMEGA 1		308	US	18 JUN	30 OCT 63	
OMEGA 2		310	US	18 JUN	12 JUL 62	
OMEGA 3		314	US	18 JUN	14 JUL 62	
A ALPHA 5		6251	US	19 JUN	30 OCT 76	
A-BETA 1		315	US	23 JUN	7 JUL 62	
A-GAMMA 1		316	US	28 JUN	14 SEP 62	
A-DELTA 1	COSMOS 6	338	USSR	30 JUN	8 AUG 62	
A-DELTA 2		339	USSR	30 JUN	8 SEP 62	
A-ZETA 1		342	US	18 JUL	25 JUL 62	
A-ZETA 2		343	US	18 JUL	27 JUL 62	
A-ETA 1		344	US	21 JUL	14 AUG 62	
A-THETA 1		345	US	28 JUL	24 AUG 62	
A-IOTA 1	COSMOS 7	346	USSR	28 JUL	1 AUG 62	
A-IOTA 2		347	USSR	28 JUL	21 AUG 62	
A-IOTA 3		348	USSR	28 JUL	31 JUL 62	
A-IOTA 4		349	USSR	28 JUL	30 JUL 62	
A-KAPPA 1		360	US	2 AUG	26 AUG 62	
A-KAPPA 2		362	US	2 AUG	8 AUG 62	
A-LAMBDA 1		361	US	5 AUG	6 AUG 62	E*
A-MU 1	VOSTOK 3	363	USSR	11 AUG	15 AUG 62	
A-MU 2		364	USSR	11 AUG	14 AUG 62	
A-NU 1	VOSTOK 4	365	USSR	12 AUG	15 AUG 62	E*
A-NU 2		366	USSR	12 AUG	14 AUG 62	
A-XI 1	COSMOS 8	367	USSR	18 AUG	17 AUG 63	
A-XI 2		368	USSR	18 AUG	19 AUG 62	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
A OMICRON 2		370	US	23 AUG	2 MAR 80	
A-PI 1		371	USSR	25 AUG	28 AUG 62	
A-PI 2		372	USSR	25 AUG	2 SEP 62	
A-PI 3		373	USSR	25 AUG	31 AUG 62	
A-PI 4		379	USSR	25 AUG	5 SEP 62	
A-PI 5		380	USSR	25 AUG	30 AUG 62	
A-PI 6		376	USSR	25 AUG	6 SEP 62	
A-PI 7		386	USSR	25 AUG	8 SEP 62	
A-PI 8		387	USSR	25 AUG	5 SEP 62	
A-SIGMA 1		377	US	29 AUG	10 SEP 62	
A-TAU 1		381	USSR	1 SEP	6 SEP 62	
A-TAU 2		382	USSR	1 SEP	3 SEP 62	
A-TAU 3		383	USSR	1 SEP 3	1 OCT 62	
A-TAU 4		384	USSR	1 SEP	21 SEP 62	
A-UPSILON 1		385	US	1 SEP	26 OCT 64	
A-PHI 1		389	USSR	12 SEP	14 SEP 62	
A-PHI 2		390	USSR	12 SEP	12 SEP 62	
A-PHI 3		391	USSR	12 SEP	17 SEP 62	
A-PHI 4		392	USSR	12 SEP	13 SEP 62	
A-PHI 5		393	USSR	12 SEP	13 SEP 62	
A-PHI 6		394	USSR	12 SEP	16 SEP 62	
A-PHI 7		395	USSR	12 SEP	15 SEP 62	
A-CHI 1	ERS 2	396	US	17 SEP	16 NOV 62	
A PSI 2		398	US	18 SEP	10 JAN 83	
A PSI 4		400	US	18 SEP	5 APR 89	
A-OMEGA 1		422	USSR	27 SEP	1 OCT 62	
A-OMEGA 2		423	USSR	27 SEP	22 DEC 62	
A-OMEGA 3		425	USSR	27 SEP	6 OCT 62	
A-OMEGA 4		428	USSR	27 SEP	8 OCT 62	
A-OMEGA 5		429	USSR	27 SEP	4 OCT 62	
A-OMEGA 6		430	USSR	27 SEP	8 OCT 62	
A-OMEGA 7		431	USSR	27 SEP	3 OCT 62	
A-OMEGA 8		435	USSR	27 SEP	6 OCT 62	
B-BETA 1		427	US	29 SEP	14 OCT 62	
B GAMMA 1	EXPLORER 14	432	US	2 OCT	1 JUL 66	
B GAMMA 2		NNA	US	2 OCT	2 DEC 62	
B-DELTA 1	SIGMA 7	433	US	3 OCT	3 OCT 62	F*
B-DELTA 2		434	US	3 OCT	4 OCT 62	
B-EPSILON 1		435	US	9 OCT	16 NOV 62	
B-ZETA 1		437	USSR	17 OCT	21 OCT 62	
B-ZETA 2		438	USSR	17 OCT	5 NOV 62	
B-THETA 1		441	USSR	20 OCT	18 MAY 64	
B-THETA 2		442	USSR	20 OCT	5 JUN 63	
B-IOTA 1	SPUTNIK 29	443	USSR	24 OCT	29 OCT 62	
B-IOTA 2		456	USSR	24 OCT	2 DEC 62	H*
B-IOTA 3		457	USSR	24 OCT	26 FEB 63	
B-IOTA 4		458	USSR	24 OCT	29 NOV 62	
B-IOTA 5		459	USSR	24 OCT	24 DEC 62	
B-IOTA 6		460	USSR	24 OCT	8 DEC 62	
B-IOTA 7		482	USSR	24 OCT	10 DEC 62	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
8-IOTA 8		483	USSR	24 OCT	2 JAN 63	
8-IOTA 10		485	USSR	24 OCT	10 DEC 62	
8-IOTA 11		486	USSR	24 OCT	30 NOV 62	
8-IOTA 12		487	USSR	24 OCT	1 DEC 62	
8-IOTA 13		491	USSR	24 OCT	25 DEC 62	
8-IOTA 14		492	USSR	24 OCT	15 DEC 62	
8-IOTA 15		493	USSR	24 OCT	21 DEC 62	
8-IOTA 16		494	USSR	24 OCT	17 DEC 62	
8-IOTA 17		495	USSR	24 OCT	26 DEC 62	
8-IOTA 18		496	USSR	24 OCT	23 DEC 62	
8-IOTA 19		497	USSR	24 OCT	26 DEC 62	
8-IOTA 20		498	USSR	24 OCT	10 DEC 62	
8-IOTA 21		499	USSR	24 OCT	9 DEC 62	
8-IOTA 22		500	USSR	24 OCT	28 DEC 62	
8-IOTA 23		501	USSR	24 OCT	26 DEC 62	
8-IOTA 24		512	USSR	24 OCT	31 DEC 62	
8-IOTA 9		484	USSR	24 OCT	4 DEC 62	
8-KAPPA 1		444	US	26 OCT	5 OCT 67	
8 LAMBDA 1	EXPLORER 15	445	US	27 OCT	19 DEC 78	
8 LAMBDA 2		NNA	US	27 OCT	27 DEC 62	
8-NU 1		448	USSR	1 NOV	2-3 NOV 62	
8-NU 2		449	USSR	1 NOV	3 NOV 62	
8-XI 1		451	USSR	4 NOV	5 NOV 62	
8-XI 2		452	USSR	4 NOV	8 NOV 62	
8-XI 3		454	USSR	4 NOV	19 JAN 63	
8-XI 4		488	USSR	4 NOV	25 DEC 62	
8-XI 5		489	USSR	4 NOV	27 DEC 62	
8-OMICRON 1		453	US	5 NOV	3 DEC 62	
8-PI 1		455	US	11 NOV	12 NOV 62	
8-RHO 1		481	US	24 NOV	13 DEC 62	
8-SIGMA 1		490	US	4 DEC	8 DEC 62	
8-TAU 1		502	US	13 DEC	9 FEB 67	
8-TAU 2		504	US	13 DEC	25 AUG 68	
8-TAU 3	INJUN 3	507	US	13 DEC	1 JUL 63	
8-TAU 4		508	US	13 DEC	18 JAN 66	
8-TAU 5		513	US	13 DEC	5 FEB 67	
8-TAU 6		520	US	13 DEC	24 MAR 68	
8-PHI 1		505	US	14 DEC	8 JAN 63	
8 PSI 1		509	US	19 DEC	25 SEP 86	
8-PSI 2		514	US	19 DEC	22 APR 69	
8 PSI 3		519	US	19 DEC	21 OCT 89	
8 PSI 4		523	US	19 DEC	30 NOV 80	
8 PSI 5		725A	US	19 DEC	19 JUL 77	
8-OMEGA 1		517	USSR	22 DEC	30 DEC 62	
8-OMEGA 2		518	USSR	22 DEC	22 JAN 63	
1963 LAUNCHES						
1963 001A	SPUTNIK	521	USSR	4 JAN	5 JAN 63	
1963 001B		522	USSR	4 JAN	11 JAN 63	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 001C		524	USSR	4 JAN	11 JAN 63	
1963 002A		525	US	7 JAN	24 JAN 63	
1963 002B		526	US	7 JAN	16 JAN 63	
1963 003A		527	US	16 JAN	9 JAN 69	
1963 003B		528	US	16 JAN	8 NOV 63	
1963 003C		529	US	16 JAN	31 DEC 63	
1963 004B		532	US	14 FEB	2 NOV 81	
1963 005A		533	US	19 FEB	26 DEC 79	
1963 005B		534	US	19 FEB	29 MAY 84	
1963 005C		535	US	19 FEB	29 JUN 69	
1963 005D		536	US	19 FEB	18 JUL 78	
1963 006A		554	USSR	21 MAR	29 MAR 63	
1963 006B		555	USSR	21 MAR	9 APR 63	
1963 007A		562	US	1 APR	26 APR 63	
1963 008A		563	USSR	2 APR	3 APR 63	
1963 009A		564	US	3 APR	24 NOV 65	
1963 009B		565	US	3 APR	24 NOV 63	
1963 010A		567	USSR	13 APR	29 AUG 63	
1963 010B		568	USSR	13 APR	6 JUL 63	
1963 011A		569	USSR	22 APR	27 APR 63	
1963 011B		570	USSR	22 APR	1 MAY 63	
1963 012A		571	USSR	28 APR	8 MAY 63	
1963 012B		572	USSR	28 APR	20 MAY 63	
1963 014AE		2497	US	9 MAY	30 MAR 81	
1963 014AF		2499	US	9 MAY	12 APR 77	
1963 014AG		2500	US	9 MAY	19 NOV 74	
1963 014AH		2522	US	9 MAY	18 JAN 78	
1963 014AM		2533	US	9 MAY	3 JAN 77	
1963 014AN		2638	US	9 MAY	15 DEC 81	
1963 014AP		2793	US	9 MAY	25 FEB 71	
1963 014AW		3105	US	9 MAY	7 JUN 73	
1963 014AX		3159	US	9 MAY	18 FEB 68	
1963 014AY		3175	US	9 MAY	21 MAY 68	
1963 014BA		3236	US	9 MAY	10 MAY 79	
1963 014BF		3241	US	9 MAY	28 MAY 70	
1963 014BK		3245	US	9 MAY	30 OCT 76	
1963 014BM		3247	US	9 MAY	4 APR 77	
1963 014BP		3249	US	9 MAY	28 SEP 80	
1963 014BS		3252	US	9 MAY	30 MAY 73	
1963 014BU		3254	US	9 MAY	2 NOV 69	
1963 014BV		3255	US	9 MAY	30 OCT 76	
1963 014BW		3256	US	9 MAY	12 APR 77	
1963 014BY		3258	US	9 MAY	8 AUG 69	
1963 014BZ		3259	US	9 MAY	30 OCT 76	
1963 014CA		3260	US	9 MAY	17 JUN 69	
1963 014CC		3262	US	9 MAY	4 JUL 69	
1963 014CG		3268	US	9 MAY	1 AUG 69	
1963 014CK		3330	US	9 MAY	3 FEB 70	
1963 014CP		5500	US	9 MAY	23 JAN 77	
1963 014CQ		5503	US	9 MAY	3 JAN 77	
COSMOS 13						
EXPLORER 17						
COSMOS 14						

DECAVED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 014CR		5511	US	9 MAY	23 JAN 75	
1963 014CS		5512	US	9 MAY	5 DEC 76	
1963 014CT		5513	US	9 MAY	19 FEB 75	
1963 014CV		5916	US	9 MAY	26 APR 72	
1963 014CX		5954	US	9 MAY	22 NOV 82	
1963 014CZ		5993	US	9 MAY	20 AUG 74	
1963 014DC		5996	US	9 MAY	30 OCT 76	
1963 014DD		5997	US	9 MAY	21 NOV 73	
1963 014DE		9694	US	9 MAY	22 NOV 82	
1963 015A	FAITH 7	576	US	15 MAY	16 MAY 63	F*
1963 015B		577	US	15 MAY	16 MAY 63	
1963 016A		578	US	18 MAY	27 MAY 63	
1963 017A	COSMOS 17	580	USSR	22 MAY	2 JUN 65	
1963 017B		581	USSR	22 MAY	26 AUG 63	
1963 017C		582	USSR	22 MAY	12 MAY 65	
1963 017D		583	USSR	22 MAY	30 AUG 63	
1963 017E		584	USSR	22 MAY	25 JUL 63	
1963 017F		585	USSR	22 MAY	30 SEP 63	
1963 017G		588	USSR	22 MAY	2 APR 64	
1963 019A	COSMOS 18	586	USSR	24 MAY	2 JUN 63	
1963 018B		587	USSR	24 MAY	8 JUN 63	
1963 019A		590	US	12 JUN	11 JUL 63	
1963 020A	VOSTOK 5	591	USSR	14 JUN	19 JUN 63	E*
1963 020B		592	USSR	14 JUN	16 JUN 63	
1963 021A		593	US	15 JUN	7 AUG 63	
1963 021B	LOFTI 2A	601	US	15 JUN	18 JUL 63	
1963 021C	SOLRAD 6	599	US	15 JUN	1 AUG 63	
1963 021D	RADOSE	600	US	15 JUN	30 JUL 63	
1963 021E		598	US	15 JUN	27 JUL 63	
1963 021F		597	US	15 JUN	5 JUL 63	
1963 021G		617	US	15 JUN	3 JUL 63	
1963 022A		594	US	16 JUN	3 AUG 90	
1963 022C		610	US	16 JUN	15 NOV 91	
1963 022D		611	US	16 JUN	1 MAR 71	
1963 023A		595	USSR	16 JUN	19 JUN 63	E*
1963 023B		596	USSR	16 JUN	18 JUN 63	
1963 024B		605	US	19 JUN	23 DEC 78	
1963 024C		606	US	19 JUN	9 JUN 88	
1963 024D		607	US	19 JUN	1 FEB 80	
1963 025A		609	US	27 JUN	26 JUL 63	
1963 025A		612	US	28 JUN	14 DEC 83	
1963 026A	RESEARCH SATELLITE FOR GEOPHYSICS	62000				
1963 027A		613	US	29 JUN	26 OCT 69	
1963 027B		615	US	29 JUN	14-15 NOV 64	
1963 027C		616	US	29 JUN	10 JUL 63	
1963 028A		618	US	12 JUL	18 JUL 63	
1963 028B		619	US	12 JUL	13 JUL 63	
1963 028C		620	US	12 JUL	16 JUL 63	
1963 029A		621	US	18 JUL	13 AUG 63	
1963 029H		623	US	18 JUL	29 JUL 63	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 0300		624	US	18 JUL	12 APR 71	
1963 0310		625	US	26 JUL	9 JUL 89	
1963 032A		626	US	31 JUL	11 AUG 63	
1963 032B		627	US	31 JUL	10 AUG 63	
1963 033A	COSMOS 19	632	USSR	6 AUG	30 MAR 64	
1963 033B		633	USSR	6 AUG	8-9 DEC 63	
1963 034A		636	US	24 AUG	12 SEP 63	
1963 034B		642	US	24 AUG	8 SEP 63	
1963 035A		637	US	29 AUG	7 NOV 63	
1963 035B		638	US	29 AUG	28-29 SEP 63	
1963 035C		639	US	29 AUG	2 SEP 63	
1963 035D		640	US	29 AUG	1 SEP 63	
1963 036A		641	US	6 SEP	13 SEP 63	
1963 036B		663	US	6 SEP	13-14 SEP 63	
1963 036C		604	US	6 SEP	10 SEP 63	
1963 036D		655	US	6 SEP	8 SEP 63	
1963 036E		606	US	6 SEP	10-11 SEP 63	
1963 036F		667	US	6 SEP	10 SEP 63	
1963 037A		668	US	24 SEP	12 OCT 63	
1963 038H		7259	US	26 SEP	6 NOV 82	
1963 039B	ERS 12	675	US	17 OCT	1 JUL 65	
1963 040A	COSMOS 20	673	USSR	18 OCT	28-29 OCT 63	
1963 040B		676	USSR	18 OCT	30-31 OCT 63	
1963 041A		677	US	25 OCT	29 OCT 63	
1963 041B		678	US	25 OCT	28-29 OCT 63	
1963 041C		679	US	25 OCT	28-29 OCT 63	
1963 041D		680	US	25 OCT	28-29 OCT 63	
1963 042A		681	US	29 OCT	21 JAN 64	
1963 042B		682	US	29 OCT	23 MAY 65	
1963 042C		691	US	29 OCT	27 NOV 63	
1963 043A	POLYOT 1	683	USSR	1 NOV	16 OCT 82	
1963 043B		684	USSR	1 NOV	23 NOV 66	
1963 043C		685	USSR	1 NOV	29 OCT 65	
1963 043D		686	USSR	1 NOV	18 DEC 66	
1963 044A		687	USSR	11 NOV	14 NOV 63	
1963 044B		688	USSR	11 NOV	12 NOV 63	
1963 045A		689	USSR	16 NOV	22 NOV 63	
1963 045B		590	USSR	16 NOV	3 DEC 63	
1963 046A		693	US	27 NOV	30 DEC 65	
1963 047N	COSMOS 21	6004	US	27 NOV	17 FEB 80	
1963 047P		6158	US	27 NOV	22 NOV 73	
1963 048A		695	US	27 NOV	15 DEC 63	
1963 049J		2930	US	5 DEC	14 OCT 79	
1963 049K		4566	US	5 DEC	1 JUN 79	
1963 049L		6182	US	5 DEC	9 AUG 80	
1963 049M		6283	US	5 DEC	20 JUN 79	
1963 050A		707	USSR	13 DEC	27 MAR 64	
1963 050B		703	USSR	13 DEC	6 MAR 64	
1963 050C		709	USSR	13 DEC	3 JAN 64	
1963 050D	COSMOS 23	710	USSR	13 DEC	1 JAN 64	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1963 LAUNCHES (CONT.)						
1963 051A		711	US	18 DEC	20 DEC 63	
1963 052A	COSMOS 24	712	USSR	19 DEC	28 DEC 63	
1963 052B		713	USSR	19 DEC	25 JAN 64	
1963 053A	EXPLORER 19	714	US	19 DEC	10 MAY 81	
1963 053D		723	US	19 DEC	12 NOV 82	
1963 053F		725	US	19 DEC	23 DEC 74	
1963 054B		717	US	21 DEC	5 OCT 90	
1963 054D		736	US	21 DEC	25 NOV 81	
1963 055A		718	US	21 DEC	8 JAN 64	
1963 055B		719	US	21 DEC	7 NOV 64	
1964 LAUNCHES						
1964 004A	ECHO 2	740	US	25 JAN	7 JUN 69	
1964 004E		749	US	25 JAN	23 FEB 65	
1964 005A	SATURN 5	744	US	29 JAN	30 APR 65	
1964 006F		14423	USSR	30 JAN	2 FEB 89	
1964 006J		16545	USSR	30 JAN	2 FEB 89	
1964 006K		16546	USSR	30 JAN	2 FEB 89	
1964 007A	RANGER 6	747	US	30 JAN	2 FEB 64	
1964 008A		752	US	15 FEB	9 MAR 64	
1964 008B		755	US	15 FEB	21 FEB 64	
1964 009A		754	US	25 FEB	1 MAR 64	
1964 009B		756	US	25 FEB	26 FEB 64	
1964 010A	COSMOS 25	757	USSR	27 FEB	21 NOV 64	
1964 010B		758	USSR	27 FEB	18 JUN 64	
1964 010C		762	USSR	27 FEB	4 MAR 64	
1964 010D		763	USSR	27 FEB	23 APR 64	
1964 011A		759	US	28 FEB	19 FEB 69	
1964 011B		760	US	28 FEB	17 AUG 65	
1964 011C		761	US	28 FEB	21 SEP 65	
1964 011D		2663	US	28 FEB	1 MAR 67	
1964 012A		764	US	11 MAR	16 MAR 64	
1964 012B		765	US	11 MAR	12 MAY 64	
1964 013A	COSMOS 26	765	USSR	18 MAR	28 SEP 64	
1964 013B		767	USSR	18 MAR	17 MAY 64	
1964 013C		768	USSR	18 MAR	20-22 APR 64	
1964 013D		769	USSR	18 MAR	24-25 MAR 64	
1964 014A	COSMOS 27	770	USSR	27 MAR	28 MAR 64	
1964 014B		772	USSR	27 MAR	29 MAR 64	
1964 014C		773	USSR	27 MAR	30-31 MAR 64	
1964 014D		774	USSR	27 MAR	3-4 APR 64	
1964 015A	ARIEL 2	771	UK	27 MAR	18 NOV 67	
1964 015B		775	US	27 MAR	13 APR 64	
1964 015C		747	US	27 MAR	6 MAY 68	
1964 016A	ZOND 1	776	USSR	2 APR	3 APR 64	
1964 016B		777	USSR	2 APR	2 APR 64	
1964 016C		779	USSR	2 APR	5 APR 64	
1964 017A	COSMOS 28	779	USSR	4 APR	12 APR 64	
1964 017B		780	USSR	4 APR	3 MAY 64	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 017C		781	USSR	4 APR	6-7 APR 64	
1964 018A	GEMINI 1	782	US	8 APR	12 APR 64	
1964 019A		783	USSR	12 APR 30	APR-1 MAY 64	
1964 019B	POLYOT 2	784	USSR	12 APR	8 JUN 66	
1964 020A		786	US	23 APR	28-29 APR 64	
1964 020B		787	US	23 APR	26 APR 64	
1964 020C		788	US	23 APR	25 APR 64	
1964 020D		789	US	23 APR	25 APR 64	
1964 020E		790	US	23 APR	25 APR 64	
1964 021A	COSMOS 29	791	USSR	25 APR	2 MAY 64	
1964 021B		792	USSR	25 APR	11 MAY 64	
1964 021C		793	USSR	25 APR	26-27 APR 64	
1964 021D		794	USSR	25 APR	27-28 APR 64	
1964 021E		795	USSR	25 APR	27 APR 64	
1964 022A		796	US	27 APR	26 MAY 64	
1964 023A	COSMOS 30	797	USSR	18 MAY	26 MAY 64	
1964 023B		798	USSR	18 MAY	7 JUN 64	
1964 024A		799	US	19 MAY	22 MAY 64	
1964 025A	SATURN 6	800	US	28 MAY	1 JUN 64	
1964 026F		12142	US	4 JUN	25 OCT 81	
1964 026G		13360	US	4 JUN	11 JAN 88	
1964 027A		802	US	4 JUN	18 JUN 64	
1964 028A	COSMOS 31	803	USSR	6 JUN	20 OCT 64	
1964 028B		804	USSR	6 JUN	16 AUG 64	
1964 029A	COSMOS 32	807	USSR	10 JUN	18 JUN 64	
1964 029B		808	USSR	10 JUN	14 JUL 64	
1964 029C		810	USSR	10 JUN	12 JUN 64	
1964 030A		811	US	13 JUN	2 JUN 65	
1964 030B		820	US	13 JUN	7 AUG 64	
1964 032A		814	US	19 JUN	16 JUL 64	
1964 032B		821	US	19 JUN	2 JUL 64	
1964 033A	COSMOS 33	816	USSR	23 JUN	1 JUL 64	
1964 033B		817	USSR	23 JUN	10 JUL 64	
1964 033C		818	USSR	23 JUN	24 JUN 64	
1964 033D		819	USSR	23 JUN	24 JUN 64	
1964 034A	COSMOS 34	822	USSR	1 JUL	9 JUL 64	
1964 034B		823	USSR	1 JUL	15 JUL 64	
1964 035A		824	US	2 JUL	7 AUG 69	
1964 036A		825	US	6 JUL	8 JUL 64	
1964 036B		826	US	6 JUL	3 JAN 65	
1964 036C		827	US	6 JUL	19 JUL 64	
1964 037A		828	US	10 JUL	6 AUG 64	
1964 038B	ELEKTRON 4	830	USSR	10 JUL	12 OCT 83	
1964 038D		832	USSR	10 JUL	24 AUG 83	
1964 038E		5892	USSR	10 JUL	20 FEB 74	
1964 038F		5893	USSR	10 JUL	20 NOV 74	
1964 039A	COSMOS 35	833	USSR	15 JUL	23 JUL 64	
1964 039B		834	USSR	15 JUL	1 AUG 64	
1964 039C		835	USSR	15 JUL	31 JUL 64	
1964 039D		839	USSR	15 JUL	25 JUL 64	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 040C	ERS 13	838	US	17 JUL	1 JUL 66	
1964 041A	RANGER 7	842	US	28 JUL	31 JUL 64	G*
1964 042A	COSMOS 36	844	USSR	30 JUL	28 FEB 65	
1964 042B		845	USSR	30 JUL	29 NOV 64	
1964 043A		846	US	5 AUG 31	AUG-1 SEP 64	
1964 044A	COSMOS 37	848	USSR	14 AUG	23 AUG 64	
1964 044B		849	USSR	14 AUG	3 SEP 64	
1964 045A		850	US	14 AUG	23 AUG 64	
1964 045B		851	US	14 AUG	8 MAR 79	
1964 045C		852	US	14 AUG	16 AUG 64	
1964 046A	COSMOS 38	853	USSR	18 AUG	8 NOV 64	
1964 046B	COSMOS 39	854	USSR	18 AUG	17 NOV 64	
1964 046C	COSMOS 40	855	USSR	18 AUG	18 NOV 64	
1964 046D		856	USSR	18 AUG	19 FEB 65	
1964 046E		857	USSR	18 AUG	10 SEP 64	
1964 046F		859	USSR	18 AUG	6 SEP 64	
1964 046G		860	USSR	18 AUG	6 SEP 64	
1964 048A		861	US	21 AUG	31 MAR 65	
1964 049A		863	USSR	22 AUG	15 SEP 64	
1964 049B		865	USSR	22 AUG	28 SEP 64	
1964 049C		868	USSR	22 AUG	30 AUG 64	
1964 050A	COSMOS 42	864	USSR	22 AUG	19 DEC 65	
1964 050B		866	USSR	22 AUG	2 AUG 65	
1964 050C	COSMOS 43	867	USSR	22 AUG	27 DEC 65	
1964 051C		873	US	25 AUG	18 APR 68	
1964 051D		874	US	25 AUG	17 JUN 68	
1964 051E		875	US	25 AUG	16 SEP 68	
1964 052A	NIMBUS 1	872	US	25 AUG	16 MAY 74	
1964 052B		878	US	28 AUG	13 AUG 74	
1964 055A	COSMOS 45	880	USSR	13 SEP	18 SEP 64	
1964 055B		881	USSR	13 SEP	27 SEP 64	
1964 056A		882	US	14 SEP	6 OCT 64	
1964 056B		883	US	14 SEP	22 SEP 64	
1964 057A	SATURN 7	883	US	18 SEP	22 SEP 64	
1964 058A		884	US	23 SEP	28 SEP 64	
1964 058B		887	US	23 SEP	26 SEP 64	
1964 059A	COSMOS 46	885	USSR	24 SEP	2 OCT 64	
1964 059B		886	USSR	24 SEP	7 OCT 64	
1964 060A	EXPLORER 21	889	US	4 OCT	30 JAN 66	
1964 061A		890	US	5 OCT	26 OCT 64	
1964 062A	COSMOS 47	891	USSR	6 OCT	7 OCT 64	
1964 062B		892	USSR	6 OCT	13-14 OCT 64	
1964 062C		894	USSR	6 OCT	9 OCT 64	
1964 062D		895	USSR	6 OCT	12 OCT 64	
1964 062E		896	USSR	6 OCT	9 OCT 64	
1964 065A	VOSKHOD 1	904	USSR	12 OCT	13 OCT 64	
1964 065B		905	USSR	12 OCT	20 OCT 64	
1964 065C		906	USSR	12 OCT	13 OCT 64	
1964 066A	COSMOS 48	908	USSR	14 OCT	20 OCT 64	
1964 066B		909	USSR	14 OCT	28 OCT 64	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 066C		910	USSR	14 OCT	16 OCT 64	
1964 067A		911	US	17 OCT	4 NOV 64	
1964 068A		912	US	23 OCT	28 OCT 64	
1964 068B		914	US	23 OCT	23 FEB 65	
1964 068C		916	US	23 OCT	3-4 NOV 64	
1964 069D		918	US	23 OCT	29 OCT 64	
1964 069A		913	USSR	24 OCT	21 AUG 65	
1964 069B	COSMOS 49	917	USSR	24 OCT	17 NOV 64	
1964 069C		915	USSR	24 OCT	10 FEB 65	
1964 070A		919	USSR	28 OCT	5 NOV 64	J*
1964 070B		920	USSR	28 OCT	2 NOV 64	
1964 070C		928	USSR	28 OCT	13 NOV 64	
1964 070D		929	USSR	28 OCT	15 NOV 64	
1964 070E		989	USSR	28 OCT	13 NOV 64	
1964 070F		990	USSR	28 OCT	11 NOV 64	
1964 070G		991	USSR	28 OCT	8 NOV 64	
1964 070H		992	USSR	28 OCT	13 NOV 64	
1964 070J		993	USSR	29 OCT	12 NOV 64	
1964 070K		994	USSR	28 OCT	13 NOV 64	
1964 070L		995	USSR	28 OCT	11 NOV 64	
1964 070M		996	USSR	28 OCT	12 NOV 64	
1964 070N		997	USSR	28 OCT	14 NOV 64	
1964 070P		998	USSR	28 OCT	10 NOV 64	
1964 070Q		999	USSR	28 OCT	12 NOV 64	
1964 070R		1003	USSR	28 OCT	11 NOV 64	
1964 070S		1004	USSR	28 OCT	14 NOV 64	
1964 070T		1005	USSR	28 OCT	12 NOV 64	
1964 070U		1006	USSR	28 OCT	12 NOV 64	
1964 070V		1007	USSR	28 OCT	12 NOV 64	
1964 070W		1008	USSR	28 OCT	12 NOV 64	
1964 070X		1009	USSR	28 OCT	13 NOV 64	
1964 070Y		1010	USSR	28 OCT	13 NOV 64	
1964 070Z		1011	USSR	28 OCT	9 NOV 64	
1964 070AA		1012	USSR	28 OCT	10 NOV 64	
1964 070AB		1013	USSR	28 OCT	9 NOV 64	
1964 070AC		1014	USSR	28 OCT	17 NOV 64	
1964 070AD		1015	USSR	28 OCT	12 NOV 64	
1964 070AE		1016	USSR	28 OCT	13 NOV 64	
1964 070AF		1017	USSR	28 OCT	11 NOV 64	
1964 070AG		1018	USSR	28 OCT	13 NOV 64	
1964 070AH		1019	USSR	28 OCT	11 NOV 64	
1964 070AJ		1020	USSR	28 OCT	14 NOV 64	
1964 070AK		1021	USSR	28 OCT	13 NOV 64	
1964 070AL		1022	USSR	28 OCT	12 NOV 64	
1964 070AM		1023	USSR	28 OCT	12 NOV 64	
1964 070AN		1024	USSR	28 OCT	14 NOV 64	
1964 070AP		1025	USSR	28 OCT	13 NOV 64	
1964 070AQ		1026	USSR	28 OCT	12 NOV 64	
1964 070AR		1027	USSR	28 OCT	12 NOV 64	
1964 070AS		1028	USSR	28 OCT	13 NOV 64	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 070AT		1029	USSR	28 OCT	12 NOV 64	
1964 070AU		1030	USSR	28 OCT	13 NOV 64	
1964 070AV		1031	USSR	28 OCT	13 NOV 64	
1964 070AW		1032	USSR	28 OCT	16 NOV 64	
1964 070AX		1033	USSR	28 OCT	10 NOV 64	
1964 070AY		1034	USSR	28 OCT	9 NOV 64	
1964 070AZ		1035	USSR	28 OCT	13 NOV 64	
1964 070BA		1036	USSR	28 OCT	12 NOV 64	
1964 070BB		1037	USSR	28 OCT	12 NOV 64	
1964 070BC		1038	USSR	28 OCT	15 NOV 64	
1964 070BD		1039	USSR	28 OCT	13 NOV 64	
1964 070BE		1040	USSR	28 OCT	13 NOV 64	
1964 070BF		1041	USSR	28 OCT	12 NOV 64	
1964 070BG		1042	USSR	28 OCT	13 NOV 64	
1964 070BH		1043	USSR	28 OCT	12 NOV 64	
1964 070BJ		1044	USSR	28 OCT	17 NOV 64	
1964 070BK		1045	USSR	28 OCT	17 NOV 64	
1964 070BL		1046	USSR	28 OCT	12 NOV 64	
1964 070BM		1047	USSR	28 OCT	11 NOV 64	
1964 070BN		1048	USSR	28 OCT	14 NOV 64	
1964 070BP		1049	USSR	28 OCT	15 NOV 64	
1964 070BQ		1050	USSR	28 OCT	14 NOV 64	
1964 070BR		1051	USSR	28 OCT	12 NOV 64	
1964 070BS		1052	USSR	28 OCT	13 NOV 64	
1964 070BT		1053	USSR	28 OCT	13 NOV 64	
1964 070BU		1054	USSR	28 OCT	13 NOV 64	
1964 070BV		1055	USSR	28 OCT	11 NOV 64	
1964 070BW		1056	USSR	28 OCT	13 NOV 64	
1964 070BX		1057	USSR	28 OCT	12 NOV 64	
1964 070BY		1058	USSR	28 OCT	13 NOV 64	
1964 070BZ		1059	USSR	28 OCT	11 NOV 64	
1964 070CA		1060	USSR	28 OCT	10 NOV 64	
1964 070CB		1061	USSR	28 OCT	9 NOV 64	
1964 070CC		1062	USSR	28 OCT	16 NOV 64	
1964 070CD		1063	USSR	28 OCT	11 NOV 64	
1964 070CE		1064	USSR	28 OCT	15 NOV 64	
1964 070CF		1065	USSR	28 OCT	17 NOV 64	
1964 070CG		1066	USSR	28 OCT	11 NOV 64	
1964 070CH		1067	USSR	28 OCT	17 NOV 64	
1964 070CJ		1068	USSR	28 OCT	14 NOV 64	
1964 070CK		1069	USSR	28 OCT	16 NOV 64	
1964 070CL		1070	USSR	28 OCT	13 NOV 64	
1964 070CM		1071	USSR	28 OCT	12 NOV 64	
1964 070CN		1072	USSR	28 OCT	10 NOV 64	
1964 070CP		1073	USSR	28 OCT	12 NOV 64	
1964 070CQ		1074	USSR	28 OCT	13 NOV 64	
1964 070CR		1075	USSR	28 OCT	13 NOV 64	
1964 070CS		1076	USSR	28 OCT	13 NOV 64	
1964 070CT		1077	USSR	28 OCT	14 NOV 64	
1964 070CU		1078	USSR	28 OCT	12 NOV 64	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1964 070CV		1079	USSR	28 OCT	12 NOV 64	
1964 070CW		1080	USSR	28 OCT	17 NOV 64	
1964 070CX		1081	USSR	28 OCT	11 NOV 64	
1964 070CY		1082	USSR	28 OCT	11 NOV 64	
1964 070CZ		1083	USSR	28 OCT	11 NOV 64	
1964 070DA		1084	USSR	28 OCT	11 NOV 64	
1964 071A		921	US	2 NOV	28 NOV 64	
1964 072A		922	US	4 NOV	5 NOV 69	
1964 072B		925	US	4 NOV	2 OCT 67	
1964 072C		926	US	4 NOV	30 JUN 66	
1964 072D		927	US	4 NOV	30 JUN 66	
1964 074A		924	US	5 NOV	29 JUN 83	
1964 074B		3747	US	6 NOV	13 JUN 73	
1964 074C		4019	US	6 NOV	15 JUL 69	
1964 074D		6731	US	6 NOV	2 JAN 74	
1964 074E		6732	US	6 NOV	29 MAY 74	
1964 075A		930	US	18 NOV	6 DEC 64	
1964 076A		931	US	21 NOV	18 OCT 68	
1964 076D		934	US	21 NOV	2 OCT 82	
1964 076E		935	US	21 NOV	28 MAY 84	
1964 076F		936	US	21 NOV	3 APR 68	
1964 076G		937	US	21 NOV	19 APR 81	
1964 076H		939	US	21 NOV	30 APR 68	
1964 076J		941	US	21 NOV	22 FEB 79	
1964 076K		960	US	21 NOV	30 APR 89	
1964 076L		1411	US	21 NOV	5 MAR 68	
1964 076M		4079	US	21 NOV	21 OCT 71	
1964 076N		940	US	21 NOV	13 MAR 81	
1964 078A		943	USSR	30 NOV	1 DEC 64	
1964 078B		944	USSR	30 NOV	2 DEC 64	
1964 079A		946	US	4 DEC	5 DEC 64	
1964 080A		947	USSR	9 DEC	14 NOV 65	
1964 080B		948	USSR	9 DEC	11 MAY 65	
1964 080C		950	USSR	9 DEC	29 DEC 64	
1964 080D		952	USSR	9 DEC	1 JAN 65	
1964 080E		954	USSR	9 DEC	1 JAN 65	
1964 080F		955	USSR	9 DEC	1 JAN 65	
1964 081A		949	USSR	9 DEC	2 JAN 65	
1964 082A		951	US	10 DEC	13 DEC 64	
1964 083E		966	US	11 DEC	12 DEC 64	
1964 083H		1528	US	13 DEC	10 JUN 82	
1964 083K		2798	US	13 DEC	7 JAN 80	
1964 083L		5444	US	13 DEC	24 SEP 80	
1964 083M		5540	US	13 DEC	18 JAN 79	
1964 084A		957	ITALY	15 DEC	20 FEB 79	
1964 084B		958	US	15 DEC	13 SEP 65	
1964 084C		962	US	15 DEC	6-7 FEB 65	
1964 085A		961	US	19 DEC	21 JAN 65	
1964 086B		4925	US	21 DEC	21 DEC 83	
1964 086C		4926	US	21 DEC	7 MAY 82	
	EXPLOLER 23					
	EXPLOLER 24					
	COSMOS 51					
	CENTAUR 4					
	SAN MARCO 1					

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1964 LAUNCHES (CONT.)						
1965 0860		5820	US	21 DEC	1 FEB 72	
1964 087A		964	US	21 DEC	11 JAN 65	
1965 LAUNCHES						
1965 001A	COSMOS 52	968	USSR	11 JAN	19 JAN 65	
1965 001B		969	USSR	11 JAN	29 JAN 65	
1965 001C		970	USSR	11 JAN	13-14 JAN 65	
1965 001D		971	USSR	11 JAN	13-14 JAN 65	
1965 002A		972	US	15 JAN	9 FEB 65	
1965 002B		982	US	15 JAN	30 JAN 65	
1965 003A		973	US	19 JAN	13 JUL 79	
1965 003B		974	US	19 JAN	17 JUN 65	
1965 003C		975	US	19 JAN	9 JUL 65	
1965 005A		980	US	23 JAN	28-29 JAN 65	
1965 005B		981	US	23 JAN	25 JAN 65	
1965 006A	COSMOS 53	983	USSR	30 JAN	12 AUG 66	
1965 006B		984	USSR	30 JAN	11 JAN 66	
1965 006C		985	USSR	30 JAN	4-5 MAR 65	
1965 005D		986	USSR	30 JAN	4 MAR 65	
1965 007A	OSO 2	987	US	3 FEB	9 AUG 89	
1965 007B		988	US	3 FEB	11 SEP 77	
1965 009A	PEGASUS 1	1085	US	16 FEB	17 SEP 78	
1965 009H		1088	US	16 FEB	10 JUL 85	
1965 010A	RANGER 8	1086	US	17 FEB	20 FEB 65	
1965 011A	COSMOS 54	1089	USSR	21 FEB	15 SEP 68	
1965 011B	COSMOS 55	1090	USSR	21 FEB	2 FEB 68	
1965 011C	COSMOS 56	1091	USSR	21 FEB	2 NOV 67	
1965 011D		1092	USSR	21 FEB	23 DEC 69	
1965 011E		1094	USSR	21 FEB	8 APR 66	
1965 012A	COSMOS 57	1093	USSR	22 FEB	22 FEB 65	
1965 012B		1095	USSR	22 FEB	5 MAR 65	
1965 012C		1100	USSR	22 FEB	9 MAR 65	
1965 012D		1101	USSR	22 FEB	25 FEB 65	
1965 012E		1102	USSR	22 FEB	26 FEB 65	
1965 012F		1103	USSR	22 FEB	2 MAR 65	
1965 012G		1104	USSR	22 FEB	10 MAR 65	
1965 012H		1105	USSR	22 FEB	25 FEB 65	
1965 012J		1106	USSR	22 FEB	2 MAR 65	
1965 012K		1107	USSR	22 FEB	25 MAR 65	
1965 012L		1108	USSR	22 FEB	1 MAR 65	
1965 012M		1109	USSR	22 FEB	26 FEB 65	
1965 012N		1110	USSR	22 FEB	27 FEB 65	
1965 012P		1111	USSR	22 FEB	2 MAR 65	
1965 012Q		1112	USSR	22 FEB	1 MAR 65	
1965 012R		1113	USSR	22 FEB	25 FEB 65	
1965 012S		1114	USSR	22 FEB	3 MAR 65	
1965 012T		1115	USSR	22 FEB	27 FEB 65	
1965 012U		1116	USSR	22 FEB	4 MAR 65	
1965 012V		1117	USSR	22 FEB	2 MAR 65	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012W		1118	USSR	22 FEB	1 MAR 65	
1965 012X		1119	USSR	22 FEB	1 MAR 65	
1965 012Y		1120	USSR	22 FEB	2 MAR 65	
1965 012Z		1121	USSR	22 FEB	1 MAR 65	
1965 012AA		1122	USSR	22 FEB	1 MAR 65	
1965 012AB		1123	USSR	22 FEB	27 FEB 65	
1965 012AC		1124	USSR	22 FEB	2 MAR 65	
1965 012AD		1125	USSR	22 FEB	2 MAR 65	
1965 012AE		1126	USSR	22 FEB	1 MAR 65	
1965 012AF		1127	USSR	22 FEB	28 FEB 65	
1965 012AG		1128	USSR	22 FEB	5 MAR 65	
1965 012AH		1129	USSR	22 FEB	5 MAR 65	
1965 012AJ		1130	USSR	22 FEB	11 MAR 65	
1965 012AK		1131	USSR	22 FEB	7 MAR 65	
1965 012AL		1132	USSR	22 FEB	7 MAR 65	
1965 012AM		1133	USSR	22 FEB	21 MAR 65	
1965 012AN		1134	USSR	22 FEB	19 MAR 65	
1965 012AP		1135	USSR	22 FEB	13 MAR 65	
1965 012AQ		1136	USSR	22 FEB	17 MAR 65	
1965 012AR		1137	USSR	22 FEB	9 MAR 65	
1965 012AS		1138	USSR	22 FEB	8 MAR 65	
1965 012AT		1139	USSR	22 FEB	10 MAR 65	
1965 012AU		1140	USSR	22 FEB	25 MAR 65	
1965 012AV		1141	USSR	22 FEB	10 MAR 65	
1965 012AW		1142	USSR	22 FEB	14 MAR 65	
1965 012AX		1143	USSR	22 FEB	20 MAR 65	
1965 012AY		1144	USSR	22 FEB	21 MAR 65	
1965 012AZ		1145	USSR	22 FEB	21 MAR 65	
1965 012BA		1146	USSR	22 FEB	17 MAR 65	
1965 012B9		1147	USSR	22 FEB	16 MAR 65	
1965 012BC		1148	USSR	22 FEB	11 MAR 65	
1965 012BD		1149	USSR	22 FEB	19 MAR 65	
1965 012BE		1150	USSR	22 FEB	17 MAR 65	
1965 012BF		1151	USSR	22 FEB	10 MAR 65	
1965 012BG		1152	USSR	22 FEB	16 MAR 65	
1965 012BH		1153	USSR	22 FEB	7 MAR 65	
1965 012BJ		1154	USSR	22 FEB	7 MAR 65	
1965 012BK		1155	USSR	22 FEB	7 MAR 65	
1965 012BL		1156	USSR	22 FEB	18 MAR 65	
1965 012BW		1157	USSR	22 FEB	13 MAR 65	
1965 012BN		1158	USSR	22 FEB	4 MAR 65	
1965 012BP		1159	USSR	22 FEB	18 MAR 65	
1965 012BQ		1160	USSR	22 FEB	4 MAR 65	
1965 012BR		1161	USSR	22 FEB	5 MAR 65	
1965 012BS		1162	USSR	22 FEB	25 MAR 65	
1965 012BT		1163	USSR	22 FEB	5 MAR 65	
1965 012BU		1164	USSR	22 FEB	13 MAR 65	
1965 012BV		1165	USSR	22 FEB	9 MAR 65	
1965 012BW		1166	USSR	22 FEB	7 MAR 65	
1965 012BX		1167	USSR	22 FEB	20 MAR 65	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012BY		1168	USSR	22 FEB	6 MAR 65	
1965 012BZ		1169	USSR	22 FEB	5 MAR 65	
1965 012CA		1170	USSR	22 FEB	4 MAR 65	
1965 012CB		1171	USSR	22 FEB	5 MAR 65	
1965 012CC		1172	USSR	22 FEB	5 MAR 65	
1965 012CD		1173	USSR	22 FEB	4 MAR 65	
1965 012CE		1174	USSR	22 FEB	22 MAR 65	
1965 012CF		1175	USSR	22 FEB	5 MAR 65	
1965 012CG		1176	USSR	22 FEB	5 MAR 65	
1965 012CH		1177	USSR	22 FEB	27 MAR 65	
1965 012CJ		1178	USSR	22 FEB	5 MAR 65	
1965 012CK		1179	USSR	22 FEB	16 MAR 65	
1965 012CL		1180	USSR	22 FEB	4 MAR 65	
1965 012CM		1181	USSR	22 FEB	6 MAR 65	
1965 012CN		1182	USSR	22 FEB	7 MAR 65	
1965 012CP		1183	USSR	22 FEB	8 MAR 65	
1965 012CQ		1184	USSR	22 FEB	7 MAR 65	
1965 012CR		1185	USSR	22 FEB	11 MAR 65	
1965 012CS		1186	USSR	22 FEB	1 MAR 65	
1965 012CT		1187	USSR	22 FEB	1 MAR 65	
1965 012CU		1188	USSR	22 FEB	1 MAR 65	
1965 012CV		1189	USSR	22 FEB	1 MAR 65	
1965 012CW		1190	USSR	22 FEB	16 MAR 65	
1965 012CX		1194	USSR	22 FEB	9 MAR 65	
1965 012CY		1195	USSR	22 FEB	9 MAR 65	
1965 012CZ		1196	USSR	22 FEB	21 MAR 65	
1965 012DA		1197	USSR	22 FEB	4 MAR 65	
1965 012DB		1198	USSR	22 FEB	17 MAR 65	
1965 012DC		1199	USSR	22 FEB	11 MAR 65	
1965 012DD		1200	USSR	22 FEB	4 MAR 65	
1965 012DE		1201	USSR	22 FEB	9 MAR 65	
1965 012DF		1202	USSR	22 FEB	14 MAR 65	
1965 012DG		1203	USSR	22 FEB	15 MAR 65	
1965 012DH		1204	USSR	22 FEB	16 MAR 65	
1965 012DJ		1205	USSR	22 FEB	9 MAR 65	
1965 012DK		1206	USSR	22 FEB	11 MAR 65	
1965 012DL		1209	USSR	22 FEB	4 MAR 65	
1965 012DM		1210	USSR	22 FEB	16 MAR 65	
1965 012DN		1211	USSR	22 FEB	12 MAR 65	
1965 012DP		1212	USSR	22 FEB	14 MAR 65	
1965 012DQ		1213	USSR	22 FEB	20 MAR 65	
1965 012DR		1214	USSR	22 FEB	16 MAR 65	
1965 012DS		1215	USSR	22 FEB	17 MAR 65	
1965 012DT		1216	USSR	22 FEB	28 MAR 65	
1965 012DU		1217	USSR	22 FEB	20 MAR 65	
1965 012DV		1218	USSR	22 FEB	14 MAR 65	
1965 012DW		1219	USSR	22 FEB	12 MAR 65	
1965 012DX		1220	USSR	22 FEB	18 MAR 65	
1965 012DY		1221	USSR	22 FEB	12 MAR 65	
1965 012DZ		1222	USSR	22 FEB	12 MAR 65	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012EA		1223	USSR	22 FEB	31 MAR 65	
1965 012EB		1224	USSR	22 FEB	16 MAR 65	
1965 012EC		1225	USSR	22 FEB	14 MAR 65	
1965 012ED		1226	USSR	22 FEB	18 MAR 65	
1965 012EE		1227	USSR	22 FEB	11 MAR 65	
1965 012EF		1229	USSR	22 FEB	29 MAR 65	
1965 012EG		1230	USSR	23 FEB	13 MAR 65	
1965 012EH		1231	USSR	23 FEB	17 MAR 65	
1965 012EJ		1232	USSR	23 FEB	24 MAR 65	
1965 012EK		1233	USSR	23 FEB	20 MAR 65	
1965 012EL		1234	USSR	23 FEB	20 MAR 65	
1965 012EM		1235	USSR	23 FEB	17 MAR 65	
1965 012EN		1236	USSR	23 FEB	17 MAR 65	
1965 012EP		1237	USSR	23 FEB	20 MAR 65	
1965 012EQ		1238	USSR	23 FEB	17 MAR 65	
1965 012ER		1239	USSR	23 FEB	29 MAR 65	
1965 012ES		1240	USSR	23 FEB	17 MAR 65	
1965 012ET		1241	USSR	23 FEB	17 MAR 65	
1965 012EU		1242	USSR	23 FEB	24 MAR 65	
1965 012EV		1243	USSR	23 FEB	17 MAR 65	
1965 012EW		1254	USSR	23 FEB	12 MAR 65	
1965 012EX		1255	USSR	23 FEB	20 MAR 65	
1965 012EY		1256	USSR	23 FEB	21 MAR 65	
1965 012EZ		1257	USSR	23 FEB	21 MAR 65	
1965 012FA		1258	USSR	23 FEB	17 MAR 65	
1965 012FB		1261	USSR	23 FEB	6 APR 65	
1965 012FC		1262	USSR	23 FEB	15 MAR 65	
1965 012FD		1263	USSR	23 FEB	21 MAR 65	
1965 012FE		1264	USSR	23 FEB	26 MAR 65	
1965 012FF		1265	USSR	23 FEB	15 MAR 65	
1965 012FG		1266	USSR	23 FEB	6 MAR 65	
1965 012FH		1275	USSR	23 FEB	21 MAR 65	
1965 012FJ		1276	USSR	23 FEB	20 MAR 65	
1965 012FK		1277	USSR	23 FEB	20 MAR 65	
1965 012FL		1278	USSR	23 FEB	22 MAR 65	
1965 012FM		1279	USSR	23 FEB	31 MAR 65	
1965 012FN		1280	USSR	23 FEB	24 MAR 65	
1965 012FP		1281	USSR	23 FEB	19 MAR 65	
1965 012FQ		1282	USSR	23 FEB	21 MAR 65	
1965 012FR		1283	USSR	23 FEB	23 MAR 65	
1965 012FS		1284	USSR	23 FEB	19 MAR 65	
1965 012FT		1295	USSR	23 FEB	20 MAR 65	
1965 012FU		1296	USSR	23 FEB	15 MAR 65	
1965 012FV		1297	USSR	23 FEB	22 MAR 65	
1965 012FW		1299	USSR	23 FEB	20 MAR 65	
1965 012FX		1300	USSR	23 FEB	23 MAR 65	
1965 012FY		1304	USSR	23 FEB	28 MAR 65	
1965 012FZ		1309	USSR	23 FEB	28 MAR 65	
1965 013A		1096	US	25 FEB	18 MAR 65	
1965 013B		1193	US	25 FEB	10-11 MAR 65	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 014A	COSMOS 58	1097	USSR	26 FEB	25 FEB 90	
1965 014B		1098	USSR	26 FEB	25 JUL 88	
1965 015A	COSMOS 59	1191	USSR	7 MAR	15 MAR 65	
1965 015B		1192	USSR	7 MAR	19 MAR 65	
1965 015C		1207	USSR	7 MAR	10-11 MAR 65	
1965 016G	SURCAL	1310	US	9 MAR	27 MAR 81	
1965 017A	NNSS 30030	1303	US	11 MAR	14 JUN 65	
1965 017B	SECOR (EGRS) 2	1250	US	11 MAR	26 FEB 68	
1965 017C		1228	US	11 MAR	4 SEP 67	
1965 017D		1248	US	11 MAR	29 JUL 67	
1965 017E		1251	US	11 MAR	1 AUG 65	
1965 017F		1249	US	11 MAR	10 SEP 65	
1965 017G		1319	US	11 MAR	28 JUN 65	
1965 017H		1323	US	11 MAR	23 DEC 65	
1965 018A	COSMOS 60	1246	USSR	12 MAR	17 MAR 65	
1965 018B		1252	USSR	12 MAR	16-17 MAR 65	
1965 018C		1253	USSR	12 MAR	15 MAR 65	
1965 019A		1247	US	12 MAR	17 MAR 65	
1965 019B		1259	US	12 MAR	16 MAR 65	
1965 019C		1260	US	12 MAR	21 MAR 65	
1965 020A	COSMOS 61	1267	USSR	15 MAR	15 JAN 68	
1965 020B	COSMOS 62	1268	USSR	15 MAR	24 SEP 68	
1965 020C	COSMOS 63	1269	USSR	15 MAR	4 NOV 67	
1965 020D		1270	USSR	15 MAR	5 AUG 66	L*
1965 020F		1336	USSR	15 MAR	24 JUL 68	
1965 020G		1337	USSR	15 MAR	29 SEP 66	
1965 020H		1338	USSR	15 MAR	30 APR 67	
1965 020J		1339	USSR	15 MAR	14 OCT 69	
1965 020K		1340	USSR	15 MAR	30 MAY 68	
1965 020L		1341	USSR	15 MAR	13 FEB 69	
1965 020M		1342	USSR	15 MAR	9 SEP 69	
1965 020N		1343	USSR	15 MAR	20 DEC 66	
1965 020P		1344	USSR	15 MAR	14 NOV 69	
1965 020Q		1345	USSR	15 MAR	26 NOV 88	
1965 020R		1346	USSR	15 MAR	18 MAY 75	
1965 020T		1348	USSR	15 MAR	15 NOV 81	
1965 020U		1349	USSR	15 MAR	9 APR 79	
1965 020V		1350	USSR	15 MAR	19 DEC 65	
1965 020W		1351	USSR	15 MAR	6 AUG 72	
1965 020X		1352	USSR	15 MAR	3 JUL 67	
1965 020Y		1353	USSR	15 MAR	30 JAN 66	
1965 020Z		1354	USSR	15 MAR	15 MAY 68	
1965 020AA		1355	USSR	15 MAR	9 OCT 66	
1965 020AB		1356	USSR	15 MAR	14 AUG 65	
1965 020AD		1371	USSR	15 MAR	26 SEP 80	
1965 020AE		1372	USSR	15 MAR	24 JUN 89	
1965 020AF		1373	USSR	15 MAR	4 FEB 79	
1965 020AG		1375	USSR	15 MAR	14 OCT 65	
1965 020AJ		1397	USSR	15 MAR	6 APR 68	
1965 020AK		1398	USSR	15 MAR	25 JUN 70	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 020AL		1400	USSR	15 MAR	5 OCT 65	
1965 020AM		1401	USSR	15 MAR	20 MAR 66	
1965 020AN		1402	USSR	15 MAR	5 MAY 67	
1965 020AP		1403	USSR	15 MAR	3 DEC 65	
1965 020AQ		1409	USSR	15 MAR	19 MAY 66	
1965 020AR		1410	USSR	15 MAR	17 FEB 67	
1965 020AS		1416	USSR	15 MAR	5 MAY 67	
1965 020AT		1417	USSR	15 MAR	9 SEP 65	
1965 020AU		1413	USSR	15 MAR	10 AUG 65	
1965 020AV		1419	USSR	15 MAR	1 SEP 66	
1965 020AW		1436	USSR	15 MAR	20 MAY 65	
1965 020AX		1437	USSR	15 MAR	28 OCT 65	
1965 020AY		1438	USSR	15 MAR	3 NOV 80	
1965 020AZ		1439	USSR	15 MAR	16 JAN 79	
1965 020BA		1475	USSR	15 MAR	21 SEP 67	
1965 020BF		1481	USSR	15 MAR	23 MAY 79	
1965 020BG		1482	USSR	15 MAR	9 JAN 66	
1965 020BH		1483	USSR	15 MAR	27 FEB 68	
1965 020BJ		1484	USSR	15 MAR	24 OCT 68	
1965 020BK		1485	USSR	15 MAR	15 APR 68	
1965 020BL		1486	USSR	15 MAR	10 JUN 67	
1965 020BM		1487	USSR	15 MAR	18 APR 67	
1965 020BN		1488	USSR	15 MAR	14 NOV 67	
1965 020BP		1489	USSR	15 MAR	26 OCT 66	
1965 020BQ		1490	USSR	15 MAR	3 JAN 66	
1965 020BR		1491	USSR	15 MAR	10 SEP 68	
1965 020BS		1492	USSR	15 MAR	23 NOV 65	
1965 020BT		1493	USSR	15 MAR	4 NOV 66	
1965 020BU		1494	USSR	15 MAR	4 SEP 65	
1965 020BW		1496	USSR	15 MAR	15 SEP 66	
1965 020BX		1497	USSR	15 MAR	28 MAY 67	
1965 020BY		1498	USSR	15 MAR	6 MAY 66	
1965 020BZ		1499	USSR	15 MAR	7 SEP 66	
1965 020CA		1530	USSR	15 MAR	4 JUL 69	
1965 020CB		1531	USSR	15 MAR	5 MAR 67	
1965 020CC		1532	USSR	15 MAR	11 JAN 66	
1965 020CD		1533	USSR	15 MAR	27 DEC 65	
1965 020CE		1534	USSR	15 MAR	5 MAY 71	
1965 020CF		1535	USSR	15 MAR	14 DEC 65	
1965 020CG		1536	USSR	15 MAR	26 APR 66	
1965 020CH		1537	USSR	15 MAR	17 AUG 66	
1965 020CJ		1538	USSR	15 MAR	3 DEC 74	
1965 020CK		1539	USSR	15 MAR	26 SEP 66	
1965 020CL		1540	USSR	15 MAR	27 FEB 68	
1965 020CM		1541	USSR	15 MAR	20 MAR 66	
1965 020CN		1542	USSR	15 MAR	31 JUL 66	
1965 020CP		1543	USSR	15 MAR	19 SEP 68	
1965 020CO		1544	USSR	15 MAR	22 FEB 67	
1965 020CQ		1545	USSR	15 MAR	24 JAN 66	
1965 020CS		1546	USSR	15 MAR	16 AUG 66	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 020CT		1547	USSR	15 MAR	24 JUL 66	
1965 020CU		1548	USSR	15 MAR	27 MAY 78	
1965 020CW		1550	USSR	15 MAR	8 JUL 70	
1965 020CX		1551	USSR	15 MAR	19 DEC 69	
1965 020CY		1552	USSR	15 MAR	20 MAR 67	
1965 020CZ		1553	USSR	15 MAR	23 JUL 66	
1965 020DA		1554	USSR	15 MAR	6 JAN 67	
1965 020DB		1555	USSR	15 MAR	12 FEB 68	
1965 020DC		1556	USSR	15 MAR	2 MAY 67	
1965 020DD		1557	USSR	15 MAR	12 FEB 67	
1965 020DE		1558	USSR	15 MAR	12 JUN 68	
1965 020DF		1559	USSR	15 MAR	18 APR 67	
1965 020DG		1560	USSR	15 MAR	13 OCT 65	
1965 020DH		1561	USSR	15 MAR	12 APR 67	
1965 020DJ		1562	USSR	15 MAR	22 FEB 66	
1965 020DK		1563	USSR	15 MAR	28 OCT 69	
1965 020DL		1564	USSR	15 MAR	10 SEP 81	
1965 020DM		1565	USSR	15 MAR	2 FEB 67	
1965 020DN		1566	USSR	15 MAR	8 DEC 79	
1965 020DP		1567	USSR	15 MAR	12 SEP 74	
1965 020DQ		1568	USSR	15 MAR	1 MAY 66	
1965 020DR		1569	USSR	15 MAR	18 JUL 66	
1965 020DS		1592	USSR	15 MAR	27 OCT 70	
1965 020DT		1593	USSR	15 MAR	28 SEP 70	
1965 020DU		1594	USSR	15 MAR	19 DEC 66	
1965 020DV		1595	USSR	15 MAR	6 APR 72	
1965 020DW		1596	USSR	15 MAR	29 OCT 67	
1965 020DX		1597	USSR	15 MAR	28 DEC 88	
1965 020DY		1598	USSR	15 MAR	12 APR 76	
1965 020DZ		1599	USSR	15 MAR	16 JAN 71	
1965 020EA		1600	USSR	15 MAR	10 MAR 78	
1965 020EB		1601	USSR	15 MAR	17 JAN 67	
1965 020EC		1633	USSR	15 MAR	31 JAN 81	
1965 020EE		1635	USSR	15 MAR	20 OCT 67	
1965 020EF		2203	USSR	15 MAR	20 APR 67	
1965 020EG		2204	USSR	15 MAR	17 OCT 66	
1965 020EJ		2339	USSR	15 MAR	12 NOV 66	
1965 020EK		2387	USSR	15 MAR	19 OCT 66	
1965 020EL		2637	USSR	15 MAR	19 FEB 67	
1965 020EP		3163	USSR	15 MAR	16 JUL 69	
1965 020EQ		3707	USSR	15 MAR	13 OCT 79	
1965 020EW		3963	USSR	15 MAR	9 JUL 91	
1965 020EX		3964	USSR	15 MAR	29 OCT 80	
1965 020EZ		4016	USSR	15 MAR	13 APR 81	
1965 020FA		5733	USSR	15 MAR	11 MAR 72	
1965 020FB		5813	USSR	15 MAR	13 FEB 81	
1965 020FC		5983	USSR	15 MAR	9 AUG 72	
1965 020FE		6736	USSR	15 MAR	12 JUL 80	
1965 021A		1273	US	13 MAR	31 DEC 89	
1965 021B		1288	US	18 MAR	5 OCT 65	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 021C		1289	US	18 MAR	6 SEP 79	
1965 021D		1290	US	18 MAR	1 OCT 65	
1965 021E		1376	US	18 MAR	1 JAN 70	
1965 021F		1463	US	18 MAR	18 MAY 79	
1965 022A	VOSKHOD 2	1274	USSR	18 MAR	19 MAR 65	
1965 022B		1285	USSR	18 MAR	27 MAR 65	
1965 022C		1286	USSR	18 MAR	25 MAR 65	
1965 022D		1287	USSR	18 MAR	19 MAR 65	
1965 023A	RANGER 9	1294	US	21 MAR	24 MAR 65	
1965 024A	GEMINI 3	1301	US	23 MAR	23 MAR 65	
1965 024B		1302	US	23 MAR	24 MAR 65	
1965 025A	COSMOS 64	1305	USSR	25 MAR	2 APR 65	
1965 025B		1306	USSR	25 MAR	4 APR 65	
1965 025C		1308	USSR	25 MAR	26 APR 65	
1965 026A		1307	US	25 MAR	4-5 APR 65	
1965 026B		1311	US	25 MAR	1 APR 65	
1965 029A	COSMOS 65	1320	USSR	17 APR	25 APR 65	
1965 029B		1321	USSR	17 APR	6 MAY 65	
1965 029C		1322	USSR	17 APR	20 APR 65	
1965 030A		1324	USSR	23 APR	16 AUG 79	
1965 030B		1325	USSR	23 APR	20 JUL 65	
1965 030C		1326	USSR	23 APR	2 JUL 65	
1965 030D		1367	USSR	23 APR	4 JUN 79	
1965 031A		1327	US	28 APR	3 MAY 65	
1965 031B		1329	US	28 APR	31 OCT 69	
1965 031C		1331	US	28 APR	30 APR 65	
1965 031D		1332	US	28 APR	30 APR 65	
1965 031E		1333	US	28 APR	3-4 APR 65	
1965 031F		1334	US	28 APR	8 MAY 65	
1965 031G		1357	US	20 APR	18 MAR 66	
1965 032C		1995	US	29 APR	13 JAN 90	
1965 033A		1330	US	29 APR	26 MAY 65	
1965 033B		1367	US	29 APR	8 JUN 65	
1965 035A	COSMOS 66	1362	USSR	7 MAY	15 MAY 65	
1965 035B		1363	USSR	7 MAY	24 MAY 65	
1965 035C		1364	USSR	7 MAY	9 MAY 65	
1965 035D		1365	USSR	7 MAY	9 MAY 65	
1965 036A	LUNA 5	1366	USSR	9 MAY	12 MAY 65	
1965 036B		1368	USSR	9 MAY	10 MAY 65	
1965 036C		1369	USSR	9 MAY	10 MAY 65	
1965 037A		1374	US	18 MAY	15-16 JUN 65	
1965 037B		1415	US	18 MAY	2 JUN 65	
1965 038C		1379	US	20 MAY	7 APR 93	
1965 038D		1380	US	20 MAY	2 MAY 66	
1965 038E		1461	US	20 MAY	20 MAR 39	
1965 039F		1462	US	20 MAY	23 APR 80	
1965 039G		1475	US	20 MAY	19 FEB 88	
1965 039A	PEGASUS 2	1381	US	25 MAY	3 NOV 79	
1965 039B		1385	US	25 MAY	8 JUL 89	
1965 040A	COSMOS 67	1382	USSR	25 MAY	2 JUN 65	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 0408		1383	USSR	25 MAY	4 JUN 65	
1965 040C		1384	USSR	25 MAY	30-31 MAY 65	
1965 0400		1387	USSR	25 MAY	30-31 MAY 65	
1965 041A		1386	US	27 MAY	1 JUN 65	
1965 042A	EXPLORER 28	1388	US	29 MAY	4 JUL 68	
1965 043A	GEMINI 4	1390	US	3 JUN	7 JUN 65	F*
1965 043B		1391	US	3 JUN	5 JUN 65	
1965 044B		1394	USSR	8 JUN	12 JUN 65	
1965 044C		1395	USSR	8 JUN	10 JUN 65	
1965 045A		1396	US	9 JUN	22 JUN 65	
1965 045B		1414	US	9 JUN	20 JUN 65	
1965 046A		1404	USSR	15 JUN	23 JUN 65	
1965 046B	COSMOS 68	1405	USSR	15 JUN	7 JUL 65	
1965 045C		1406	USSR	15 JUN	20 JUN 65	
1965 046D		1407	USSR	15 JUN	19 JUN 65	
1965 046E		1408	USSR	15 JUN	19 JUN 65	
1965 047A		1412	US	18 JUN	29 JUN 65	
1965 047B		1413	US	18 JUN	21 JUN 65	
1965 048G		11952	US	24 JUN	24 FEB 89	
1965 048H		11953	US	24 JUN	7 MAR 89	
1965 048J		12516	US	24 JUN	4 DEC 81	
1965 048K		12582	US	24 JUN	9 MAR 82	
1965 048L		19062	US	24 JUN	11 MAY 91	
1965 048M		19838	US	24 JUN	31 OCT 89	
1965 049A	COSMOS 69	1421	USSR	25 JUN	3 JUL 65	
1965 049B		1423	USSR	25 JUN	6 JUL 65	
1965 049C		1429	USSR	25 JUN	30 JUN 65	
1965 050A		1422	US	25 JUN	22 AUG 68	
1965 050B		1424	US	25 JUN	30 JUN 65	
1965 050C		1426	US	25 JUN	27 JUN 65	
1965 050D		1427	US	25 JUN	26 NOV 65	
1965 052A		1431	USSR	2 JUL	18 DEC 66	
1965 052B	COSMOS 70	1432	USSR	2 JUL	6 JUN 66	
1965 052C		1434	USSR	2 JUL	13 AUG 65	
1965 053A	COSMOS 71	1441	USSR	16 JUL	11 AUG 70	
1965 053B	COSMOS 72	1442	USSR	16 JUL	24 AUG 79	
1965 053C	COSMOS 73	1443	USSR	16 JUL	20 MAR 74	
1965 053D	COSMOS 74	1444	USSR	16 JUL	13 DEC 79	
1965 053E	COSMOS 75	1445	USSR	16 JUL	28 SEP 79	
1965 053F		1448	USSR	16 JUL	21 NOV 81	
1965 053G		1449	USSR	16 JUL	3 MAY 67	
1965 053H		1473	USSR	16 JUL	13 MAR 69	
1965 053J	PROTON 1	2338	USSR	16 JUL	12 NOV 67	
1965 054A		1466	USSR	16 JUL	11 OCT 65	
1965 054B		1451	USSR	16 JUL	18 SEP 65	
1965 054C		1450	USSR	16 JUL	24 JUL 65	
1965 054D		1446	USSR	16 JUL	31 JUL 65	
1965 055A		1447	US	17 JUL	18 DEC 68	
1965 055B		1452	US	17 JUL	5 JUL 66	
1965 055C		1455	US	17 JUL	24 JUL 66	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECEASED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)							
1965 0550		1744		US	17 JUL	16 APR 66	
1965 055E		1745		US	17 JUL	23 MAR 66	
1965 056B		1453		USSR	18 JUL	20 JUL 65	
1965 056C		1456		USSR	21 JUL	21 JUL 65	
1965 057A		1457		US	19 JUL	18 AUG 65	
1965 058C	ERS 17	1460		US	20 JUL	1 JUL 68	
1965 059A	COSMOS 76	1464		USSR	23 JUL	16 MAR 66	
1965 059B		1465		USSR	23 JUL	4 DEC 65	
1965 060A	PEGASUS 3	1467		US	30 JUL	4 AUG 69	
1965 060B		1468		US	30 JUL	22 NOV 75	
1965 060C		6841		US	30 JUL	2 OCT 73	
1965 061A		1469		USSR	3 AUG	11 AUG 65	
1965 061B		1470		USSR	3 AUG	8 AUG 65	
1965 062A		1471		US	3 AUG	7 AUG 65	
1965 062B		1472		US	3 AUG	17 JUN 68	
1965 062C		1474		US	3 AUG	6 AUG 65	
1965 065M		2335		US	13 AUG	13 APR 81	
1965 065N		3809		US	13 AUG	12 NOV 82	
1965 065R		5363		US	13 AUG	9 NOV 80	
1965 065S		6290		US	13 AUG	2 JUN 81	
1965 065T		11455		US	13 AUG	15 JUN 90	
1965 065A	COSMOS 78	1505		USSR	14 AUG	22 AUG 65	
1965 066B		1507		USSR	14 AUG	3 SEP 65	
1965 066C		1509		USSR	14 AUG	17 AUG 65	
1965 067A		1513		US	17 AUG	11 OCT 65	
1965 068A	GEMINI 5	1516		US	21 AUG	29 AUG 65	F*
1965 063B		1517		US	21 AUG	24 AUG 65	
1965 063C		1518		US	21 AUG	27 AUG 65	
1965 063D		1519		US	21 AUG	26 AUG 65	
1965 069A	COSMOS 79	1523		USSR	25 AUG	2 SEP 65	
1965 063B		1524		USSR	25 AUG	7 SEP 65	
1965 069C		1525		USSR	25 AUG	26 AUG 65	
1965 069D		1526		USSR	25 AUG	31 AUG 65	
1965 069E		1527		USSR	25 AUG	31 AUG 65	
1965 071A	COSMOS 85	1578		USSR	9 SEP	17 SEP 65	
1965 071B		1579		USSR	9 SEP	18 SEP 65	
1965 072B		1581		US	10 SEP	25 FEB 67	
1965 072C		1582		US	10 SEP	6 APR 67	
1965 074A		1602		US	22 SEP	11 OCT 65	
1965 075A	COSMOS 91	1603		USSR	23 SEP	1 OCT 65	
1965 075B		1604		USSR	23 SEP	4 OCT 65	
1965 075C		1605		USSR	23 SEP	29 SEP 65	
1965 075D		1606		USSR	23 SEP	29 SEP 65	
1965 075E		1607		USSR	23 SEP	29 SEP 65	
1965 076A		1609		US	30 SEP	5 OCT 65	
1965 076B		1614		US	30 SEP	3 OCT 65	
1965 077A	LUNA 7	1610		USSR	4 OCT	7 OCT 65	A*
1965 077B		1611		USSR	4 OCT	4 OCT 65	
1965 077C		1612		USSR	4 OCT	5 OCT 65	
1965 079A		1615		US	5 OCT	29 OCT 65	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 080A	MOLNIYA 1-2	1621	USSR	13 OCT	17 MAR 67	
1965 080B		1619	USSR	13 OCT	8 NOV 65	
1965 080C		1622	USSR	13 OCT	22 OCT 65	
1965 080D		1623	USSR	13 OCT	16 NOV 65	
1965 080E	OGJ 2	2735	USSR	13 OCT	18 JAN 67	
1965 081A		1620	US	14 OCT	17 SEP 81	
1965 081B		1625	US	14 OCT	27 NOV 87	
1965 082A		1624	US	15 OCT	27 JUL 72	
1965 082B	TITAN 3 C-4	1640	US	15 OCT	25 AUG 82	
1965 082F		1644	US	15 OCT	14 AUG 80	
1965 082G		1645	US	15 OCT	4 MAY 79	
1965 082K		1649	US	15 OCT	2 MAR 68	
1965 082L		1649	US	15 OCT	16 OCT 79	
1965 082M		1650	US	15 OCT	18 OCT 79	
1965 082P		1652	US	15 OCT	15 MAR 79	
1965 082R		1654	US	15 OCT	16 OCT 79	
1965 082S		1655	US	15 OCT	19 APR 71	
1965 082T		1656	US	15 OCT	25 NOV 81	
1965 082U		1657	US	15 OCT	17 JUN 70	
1965 082V		1658	US	15 OCT	8 MAY 70	
1965 082W		1659	US	15 OCT	20 NOV 69	
1965 082X		1660	US	15 OCT	23 SEP 69	
1965 082Y		1661	US	15 OCT	15 MAY 71	
1965 082AC		1665	US	15 OCT	28 JAN 81	
1965 082AD		1666	US	15 OCT	16 JUN 79	
1965 082AE		1667	US	15 OCT	2 APR 82	
1965 082AG		1669	US	15 OCT	15 AUG 71	
1965 082AM		1674	US	15 OCT	18 MAR 69	
1965 082AN		1675	US	15 OCT	8 APR 79	
1965 082AR		1678	US	15 OCT	30 MAY 80	
1965 082AS		1679	US	15 OCT	24 MAY 80	
1965 082AW		1683	US	15 OCT	11 JUL 66	
1965 082BH		1688	US	15 OCT	1 MAY 81	
1965 082BC		1689	US	15 OCT	29 DEC 78	
1965 082BD		1690	US	15 OCT	11 JUN 81	
1965 082BE		1691	US	15 OCT	12 MAR 71	
1965 082BF		1692	US	15 OCT	22 SEP 70	
1965 082BH		1694	US	15 OCT	26 OCT 70	
1965 082BK		1695	US	15 OCT	18 JAN 68	
1965 082HL		1697	US	15 OCT	8 JAN 78	
1965 082HM		1698	US	15 OCT	9 MAY 72	
1965 082HN		1699	US	15 OCT	21 NOV 65	
1965 082BP		1700	US	15 OCT	3 APR 70	
1965 082BQ		1709	US	15 OCT	7 APR 82	
1965 082BR		1710	US	15 OCT	1 MAR 73	
1965 082BS		1711	US	15 OCT	20 MAR 71	
1965 082BT		1712	US	15 OCT	16 SEP 81	
1965 082BU		1713	US	15 OCT	2 JAN 69	
1965 082BV		1714	US	15 OCT	9 AUG 70	
1965 082BY		1717	US	15 OCT	2 FEB 69	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 0828Z		1718	US	15 OCT	7 JUN 81	
1965 082CA		1719	US	15 OCT	3 MAR 81	
1965 082CB		1720	US	15 OCT	4 MAR 67	
1965 082CE		1723	US	15 OCT	6 NOV 78	
1965 082CF		1724	US	15 OCT	26 APR 68	
1965 082CH		1746	US	15 OCT	3 MAY 78	
1965 082CJ		1747	US	15 OCT	19 AUG 80	
1965 082CL		1749	US	15 OCT	9 DEC 79	
1965 082CM		1750	US	15 OCT	8 FEB 70	
1965 082CN		1751	US	15 OCT	21 OCT 79	
1965 082CP		1752	US	15 OCT	8 DEC 80	
1965 082CR		1754	US	15 OCT	4 AUG 68	
1965 082CS		1755	US	15 OCT	30 APR 81	
1965 082CU		1757	US	15 OCT	5 MAY 81	
1965 082CV		1758	US	15 OCT	13 JAN 73	
1965 082CW		1759	US	15 OCT	21 OCT 80	
1965 082CX		1760	US	15 OCT	31 MAR 71	
1965 082CZ		1762	US	15 OCT	22 JAN 68	
1965 082DA		1763	US	15 OCT	8 OCT 72	
1965 082DB		1764	US	15 OCT	28 SEP 77	
1965 082DC		1765	US	15 OCT	9 JUN 73	
1965 082DD		1766	US	15 OCT	3 APR 71	
1965 082DE		1767	US	15 OCT	19 FEB 71	
1965 082DF		1768	US	15 OCT	27 NOV 70	
1965 082DG		1769	US	15 OCT	7 NOV 81	
1965 082DH		1770	US	15 OCT	10 SEP 79	
1965 082DJ		1819	US	15 OCT	20 JUN 79	
1965 082DK		1820	US	15 OCT	30 MAR 81	
1965 082DL		1821	US	15 OCT	5 MAY 67	
1965 082DM		1823	US	15 OCT	21 APR 74	
1965 082DP		1824	US	15 OCT	11 JUL 67	
1965 082DR		1826	US	15 OCT	22 MAR 66	
1965 082DS		1827	US	15 OCT	30 DEC 80	
1965 082DT		1828	US	15 OCT	2 JAN 79	
1965 082DW		1831	US	15 OCT	20 NOV 67	
1965 082DZ		1834	US	15 OCT	10 JUL 67	
1965 082EC		1837	US	15 OCT	1 MAY 68	
1965 082EE		1862	US	15 OCT	11 SEP 68	
1965 082EF		1848	US	15 OCT	17 SEP 69	
1965 082EG		1849	US	15 OCT	19 JUL 67	
1965 082EH		1852	US	15 OCT	17 JAN 68	
1965 082EJ		1851	US	15 OCT	29 SEP 66	
1965 082EK		1850	US	15 OCT	22 APR 70	
1965 082EL		1853	US	15 OCT	29 NOV 66	
1965 082EM		1854	US	15 OCT	27 APR 66	
1965 082EN		1855	US	15 OCT	12 SEP 74	
1965 082EP		1856	US	15 OCT	6 FEB 67	
1965 082ER		1858	US	15 OCT	3 JAN 67	
1965 082ET		1860	US	15 OCT	19 APR 69	
1965 082EU		1879	US	15 OCT	22 MAR 66	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082EV		1880	US	15 OCT	11 SEP 66	
1965 082EX		1882	US	15 OCT	14 JUL 70	
1965 082FA		1885	US	15 OCT	30 JAN 70	
1965 082FB		1886	US	15 OCT	1 MAR 68	
1965 082FC		1887	US	15 OCT	23 MAY 79	
1965 082FD		1888	US	15 OCT	9 MAY 67	
1965 082FE		1889	US	15 OCT	9 JAN 68	
1965 082FF		1890	US	15 OCT	28 MAR 67	
1965 082FG		1891	US	15 OCT	11 MAR 68	
1965 082FH		1892	US	15 OCT	16 APR 67	
1965 082FJ		1893	US	15 OCT	2 NOV 67	
1965 082FK		1894	US	15 OCT	14 SEP 69	
1965 082FL		1895	US	15 OCT	8 SEP 66	
1965 082FM		1896	US	15 OCT	23 SEP 66	
1965 082FN		1897	US	15 OCT	7 FEB 67	
1965 082FQ		1899	US	15 OCT	11 JUL 67	
1965 082FR		1900	US	15 OCT	14 NOV 66	
1965 082FS		1908	US	15 OCT	23 MAR 66	
1965 082FT		1909	US	15 OCT	19 JUL 66	
1965 082FU		1910	US	15 OCT	9 MAY 66	
1965 082FV		1911	US	15 OCT	21 JUN 66	
1965 082FW		1912	US	15 OCT	14 AUG 66	
1965 082FX		1913	US	15 OCT	26 SEP 79	
1965 082FY		1914	US	15 OCT	9 DEC 79	
1965 082GA		1916	US	15 OCT	1 FEB 81	
1965 082GB		1917	US	15 OCT	7 APR 82	
1965 082GC		1918	US	15 OCT	10 NOV 78	
1965 082GD		1919	US	15 OCT	2 DEC 78	
1965 082GE		1920	US	15 OCT	8 FEB 80	
1965 082GF		1921	US	15 OCT	24 FEB 67	
1965 082GG		1922	US	15 OCT	5 MAR 79	
1965 082GH		1923	US	15 OCT	15 JUN 68	
1965 082GJ		1924	US	15 OCT	21 JUN 66	
1965 082GK		1925	US	15 OCT	15 OCT 67	
1965 082GL		1926	US	15 OCT	17 MAY 70	
1965 082GM		1927	US	15 OCT	3 AUG 73	
1965 082GN		1928	US	15 OCT	28 FEB 68	
1965 082GP		1929	US	15 OCT	11 APR 82	
1965 082GQ		1930	US	15 OCT	12 SEP 66	
1965 082GR		1956	US	15 OCT	12 AUG 68	
1965 082GS		1957	US	15 OCT	2 FEB 79	
1965 082GT		1958	US	15 OCT	23 MAY 79	
1965 082GV		1960	US	15 OCT	23 MAR 82	
1965 082HA		1965	US	15 OCT	6 MAR 70	
1965 082HB		1969	US	15 OCT	8 SEP 69	
1965 082HC		1970	US	15 OCT	11 OCT 69	
1965 082HD		1971	US	15 OCT	22 SEP 70	
1965 082HE		1972	US	15 OCT	2 FEB 67	
1965 082HF		1973	US	15 OCT	5 MAY 81	
1965 082HG		1974	US	15 OCT	5 MAR 81	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 062HH		1975	US	15 OCT	23 MAY 81	
1965 082HJ		1976	US	15 OCT	14 APR 82	
1965 082HK		1977	US	15 OCT	14 JUL 82	
1965 082HL		1978	US	15 OCT	9 MAR 80	
1965 082HM		1979	US	15 OCT	7 OCT 67	
1965 082HN		1980	US	15 OCT	25 MAY 69	
1965 082HQ		1984	US	15 OCT	29 MAR 74	
1965 082HR		1985	US	15 OCT	18 AUG 68	
1965 082HS		1986	US	15 OCT	8 JAN 80	
1965 082HT		1987	US	15 OCT	4 SEP 69	
1965 082HU		1988	US	15 OCT	14 NOV 70	
1965 082HV		1989	US	15 OCT	13 FEB 70	
1965 082HW		1990	US	15 OCT	9 JAN 69	
1965 082HX		1991	US	15 OCT	6 FEB 68	
1965 082HY		1992	US	15 OCT	12 NOV 80	
1965 082HZ		1993	US	15 OCT	30 MAR 80	
1965 082JA		1999	US	15 OCT	20 APR 67	
1965 082JB		2041	US	15 OCT	16 MAR 73	
1965 082JC		2042	US	15 OCT	21 NOV 79	
1965 082JD		2043	US	15 OCT	1 SEP 68	
1965 082JE		2044	US	15 OCT	20 NOV 80	
1965 082JF		2045	US	15 OCT	20 OCT 67	
1965 082JG		2046	US	15 OCT	15 NOV 67	
1965 082JH		2047	US	15 OCT	16 NOV 67	
1965 082JI		2048	US	15 OCT	27 JAN 67	
1965 082JK		2049	US	15 OCT	14 JAN 70	
1965 082JL		2051	US	15 OCT	16 SEP 81	
1965 082JM		2052	US	15 OCT	26 JUN 72	
1965 082JN		2053	US	15 OCT	27 FEB 73	
1965 082JP		2054	US	15 OCT	23 JAN 67	
1965 082JQ		2055	US	15 OCT	28 JUN 66	
1965 082JR		2056	US	15 OCT	23 SEP 66	
1965 082JS		2060	US	15 OCT	8 NOV 66	
1965 082JT		2061	US	15 OCT	16 JUN 79	
1965 082JU		2062	US	15 OCT	29 AUG 81	
1965 082JV		2064	US	15 OCT	13 DEC 68	
1965 082JW		2100	US	15 OCT	19 DEC 80	
1965 082JX		2101	US	15 OCT	15 APR 69	
1965 082JY		2102	US	15 OCT	27 NOV 67	
1965 082KA		2103	US	15 OCT	27 OCT 66	
1965 082KB		2158	US	15 OCT	29 SEP 67	
1965 082KC		2333	US	15 OCT	11 JUL 73	
1965 082KD		2340	US	15 OCT	29 SEP 73	
1965 082KE		2384	US	15 OCT	27 OCT 66	
1965 082KF		2390	US	15 OCT	16 FEB 73	
1965 082KH		2493	US	15 OCT	15 MAR 71	
1965 082KJ		2573	US	15 OCT	3 DEC 68	
1965 082KK		2574	US	15 OCT	12 FEB 79	
1965 082KL		2786	US	15 OCT	19 SEP 80	
1965 082KN		2787	US	15 OCT	13 AUG 82	
1965 082KP		2790	US	15 OCT		
1965 082KS						

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082KT		2791	US	15 OCT	29 APR 81	
1965 082KU		2792	US	15 OCT	26 DEC 71	
1965 082KV		2794	US	15 OCT	3 FEB 81	
1965 082KW		2795	US	15 OCT	14 SEP 78	
1965 082KY		2887	US	15 OCT	21 MAR 80	
1965 082KZ		2898	US	15 OCT	27 JUN 71	
1965 082LA		2899	US	15 OCT	6 MAY 79	
1965 082LB		2929	US	15 OCT	23 APR 79	
1965 082LE		2991	US	15 OCT	20 FEB 79	
1965 082LF		2992	US	15 OCT	29 MAR 69	
1965 082LG		3039	US	15 OCT	5 FEB 79	
1965 082LH		3040	US	15 OCT	29 MAR 71	
1965 082LK		3049	US	15 OCT	6 JAN 68	
1965 082LL		3050	US	15 OCT	3 JUL 79	
1965 082LM		3064	US	15 OCT	25 DEC 79	
1965 082LP		3149	US	15 OCT	3 DEC 70	
1965 082LQ		3325	US	15 OCT	17 MAR 69	
1965 082LR		3331	US	15 OCT	1 DEC 79	
1965 082LT		3356	US	15 OCT	7 MAR 79	
1965 082LV		3358	US	15 OCT	27 MAR 82	
1965 082LX		3360	US	15 OCT	11 JUN 72	
1965 082LZ		3362	US	15 OCT	3 DEC 81	
1965 082MA		3363	US	15 OCT	12 APR 82	
1965 082MB		3364	US	15 OCT	30 NOV 80	
1965 082MC		3365	US	15 OCT	9 MAR 80	
1965 082MD		3366	US	15 OCT	13 APR 81	
1965 082ME		3367	US	15 OCT	21 JAN 80	
1965 082MF		3368	US	15 OCT	1 MAR 70	
1965 082MH		3370	US	15 OCT	30 MAR 80	
1965 082MJ		3371	US	15 OCT	10 AUG 82	
1965 082MK		3372	US	15 OCT	1 NOV 78	
1965 082MM		3374	US	15 OCT	10 APR 79	
1965 082MN		3376	US	15 OCT	30 MAY 80	
1965 082MP		3377	US	15 OCT	16 OCT 80	
1965 082MQ		3378	US	15 OCT	17 JAN 79	
1965 082MR		3379	US	15 OCT	30 JUL 79	
1965 082MU		3382	US	15 OCT	6 SEP 78	
1965 082MW		3384	US	15 OCT	18 JUN 81	
1965 082MX		3385	US	15 OCT	12 APR 69	
1965 082NA		3400	US	15 OCT	10 MAR 79	
1965 082NB		3401	US	15 OCT	1 MAR 72	
1965 082NC		3402	US	15 OCT	5 JUL 78	
1965 082ND		3403	US	15 OCT	6 NOV 80	
1965 082NE		3404	US	15 OCT	3 MAR 70	
1965 082NF		3405	US	15 OCT	21 MAY 69	
1965 082NG		3406	US	15 OCT	8 MAY 69	
1965 082NH		3407	US	15 OCT	17 APR 78	
1965 082NJ		3410	US	15 OCT	5 OCT 73	
1965 082NK		3411	US	15 OCT	6 OCT 80	
1965 082NL		3412	US	15 OCT	14 MAY 70	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082NM		3413	US	15 OCT	8 MAR 69	
1965 082NN		3420	US	15 OCT	13 APR 81	
1965 082NP		3421	US	15 OCT	13 JAN 69	
1965 082NQ		3422	US	15 OCT	24 SEP 69	
1965 082NR		3423	US	15 OCT	13 JUL 80	
1965 082NS		3424	US	15 OCT	22 APR 79	
1965 082NT		3425	US	13 AUG	17 OCT 81	
1965 082NU		3426	US	15 OCT	18 FEB 81	
1965 082NV		3427	US	15 OCT	28 MAY 80	
1965 082NW		3433	US	15 OCT	19 OCT 78	
1965 082NX		3434	US	15 OCT	13 APR 82	
1965 082NY		3435	US	15 OCT	20 DEC 79	
1965 082NZ		3436	US	15 OCT	8 MAR 69	
1965 082PA		3437	US	15 OCT	28 NOV 81	
1965 082PB		3438	US	15 OCT	13 OCT 71	
1965 082PC		3439	US	15 OCT	31 JAN 80	
1965 082PD		3440	US	15 OCT	13 APR 81	
1965 082PF		3442	US	15 OCT	12 JUN 69	
1965 082PG		3443	US	15 OCT	15 APR 80	
1965 082PH		3444	US	15 OCT	1 MAY 81	
1965 082PJ		3445	US	15 OCT	25 JUL 80	
1965 082PK		3446	US	15 OCT	13 FEB 81	
1965 082PL		3447	US	15 OCT	1 JUL 79	
1965 082PM		3448	US	15 OCT	1 JAN 83	
1965 082PN		3453	US	15 OCT	29 APR 69	
1965 082PQ		3455	US	15 OCT	24 DEC 80	
1965 082PR		3456	US	15 OCT	18 FEB 82	
1965 082PU		3463	US	15 OCT	21 MAY 82	
1965 082PV		3464	US	15 OCT	21 OCT 81	
1965 082PW		3465	US	15 OCT	19 SEP 72	
1965 082PZ		3468	US	15 OCT	17 OCT 80	
1965 082QA		3475	US	15 OCT	3 MAY 73	
1965 082QB		3476	US	15 OCT	19 APR 72	
1965 082QC		3477	US	15 OCT	7 APR 71	
1965 082QD		3478	US	15 OCT	4 MAR 80	
1965 082QE		3480	US	15 OCT	14 MAR 69	
1965 082QF		3481	US	15 OCT	10 FEB 80	
1965 082QG		3482	US	15 OCT	5 MAR 75	
1965 082QH		3483	US	15 OCT	29 MAY 78	
1965 082QK		3489	US	15 OCT	3 JUN 70	
1965 082QL		3490	US	15 OCT	13 JAN 78	
1965 082QM		3491	US	15 OCT	8 JUN 80	
1965 082QP		3493	US	15 OCT	21 JAN 69	
1965 082QR		3495	US	15 OCT	21 SEP 69	
1965 082QS		3496	US	15 OCT	5 APR 79	
1965 082QT		3497	US	15 OCT	19 MAR 80	
1965 082QV		3499	US	15 OCT	22 MAY 80	
1965 082QW		3500	US	15 OCT	14 JUL 70	
1965 082QX		3501	US	15 OCT	23 SEP 71	
1965 082QY		3502	US	15 OCT	27 MAR 79	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 082RA		3719	US	15 OCT	26 MAR 71	
1965 082RB		3720	US	15 OCT	7 NOV 79	
1965 082RC		3721	US	15 OCT	27 JUL 72	
1965 082KD		3722	US	15 OCT	15 MAY 70	
1965 082RE		3723	US	15 OCT	14 JUL 79	
1965 082RF		3724	US	15 OCT	6 DEC 69	
1965 082KG		3725	US	15 OCT	11 NOV 69	
1965 082RH		3726	US	15 OCT	6 APR 69	
1965 082RJ		3727	US	15 OCT	22 JUN 69	
1965 082RK		3728	US	15 OCT	1 FEB 70	
1965 082RL		3729	US	15 OCT	26 JUN 69	
1965 082RM		3730	US	15 OCT	21 DEC 77	
1965 082RN		3731	US	15 OCT	16 AUG 71	
1965 082RP		3732	US	15 OCT	7 JUN 78	
1965 082KQ		3733	US	15 OCT	5 SEP 79	
1965 082RR		3734	US	15 OCT	2 DEC 69	
1965 082RS		3735	US	15 OCT	23 SEP 69	
1965 082RT		3736	US	15 OCT	5 APR 78	
1965 082RU		3746	US	15 OCT	29 NOV 80	
1965 082RW		3838	US	15 OCT	30 NOV 80	
1965 082RX		3839	US	15 OCT	23 FEB 77	
1965 082RY		3925	US	15 OCT	30 SEP 80	
1965 082RZ		3926	US	15 OCT	26 FEB 79	
1965 082S9		3929	US	15 OCT	27 DEC 70	
1965 082SC		3930	US	15 OCT	19 NOV 82	
1965 082SD		3936	US	15 OCT	22 APR 70	
1965 082SF		3980	US	15 OCT	24 APR 70	
1965 082SG		3981	US	15 OCT	19 FEB 70	
1965 082SH		3982	US	15 OCT	25 OCT 69	
1965 082SJ		3996	US	15 OCT	26 DEC 69	
1965 082SK		3998	US	15 OCT	6 FEB 71	
1965 082SL		4003	US	15 OCT	18 FEB 81	
1965 082SM		4004	US	15 OCT	5 JAN 70	
1965 082SN		4017	US	15 OCT	13 AUG 79	
1965 082SP		4020	US	15 OCT	16 JUN 79	
1965 082SQ		4023	US	15 OCT	2 FEB 70	
1965 082SR		4025	US	15 OCT	16 OCT 69	
1965 082SS		4032	US	15 OCT	30 DEC 69	
1965 082ST		4033	US	15 OCT	3 SEP 70	
1965 082SU		4021	US	15 OCT	6 FEB 81	
1965 082SW		5056	US	15 OCT	3 MAY 71	
1965 082SX		5057	US	15 OCT	26 MAY 78	
1965 082SY		5059	US	15 OCT	7 MAR 81	
1965 082SZ		5085	US	15 OCT	12 SEP 80	
1965 082TA		5312	US	15 OCT	2 APR 72	
1965 082TB		5344	US	15 OCT	25 MAR 73	
1965 082TC		5345	US	15 OCT	25 JUN 80	
1965 082TD		5372	US	15 OCT	22 NOV 82	
1965 082TE		5375	US	15 OCT	19 APR 78	
1965 082TG		5471	US	15 OCT	31 AUG 79	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 0821H		5567	US	15 OCT	21 NOV 72	
1965 0821J		5568	US	15 OCT	24 JAN 81	
1965 0821K		5569	US	15 OCT	22 JAN 80	
1965 0821L		5571	US	15 OCT	6 APR 81	
1965 0821M		5572	US	15 OCT	24 AUG 75	
1965 0821N		5711	US	15 OCT	21 JUN 80	
1965 0821P		5719	US	15 OCT	30 JUL 75	
1965 0821Q		5734	US	15 OCT	3 JUL 80	
1965 0821R		5744	US	15 OCT	21 NOV 78	
1965 0821S		5763	US	15 OCT	1 MAR 72	
1965 0821T		5811	US	15 OCT	18 JUL 79	
1965 0821U		5844	US	15 OCT	13 MAY 74	
1965 0821V		5845	US	15 OCT	17 SEP 82	
1965 0821W		5856	US	15 OCT	23 OCT 72	
1965 0821X		5857	US	15 OCT	3 AUG 79	
1965 0821Y		5955	US	15 OCT	22 FEB 78	
1965 0821Z		5968	US	15 OCT	11 MAY 77	
1965 0820A		5970	US	15 OCT	26 JUL 73	
1965 0820B		5982	US	15 OCT	31 JAN 73	
1965 0820C		6041	US	15 OCT	4 JUL 72	
1965 0820D		6042	US	15 OCT	28 AUG 73	
1965 0820E		6141	JS	15 OCT	23 FEB 73	
1965 0820F		6183	US	15 OCT	15 SEP 74	
1965 0820H		6783	US	15 OCT	27 JUL 80	
1965 0820J		9840	US	15 OCT	21 MAY 78	
1965 083A	COSMOS 92	1626	USSR	15 OCT	24 OCT 65	
1965 083B		1627	USSR	16 OCT	29 OCT 65	
1965 083C		1628	USSR	16 OCT	25 OCT 65	
1965 084A	COSMOS 93	1629	USSR	19 OCT	3 JAN 66	
1965 084B		1630	USSR	19 OCT	17 NOV 65	
1965 084C		1631	USSR	19 OCT	25 OCT 65	
1965 084D		1632	USSR	19 OCT	26 OCT 65	
1965 084E		2098	USSR	19 OCT	6 JUL 68	
1965 085A	COSMOS 94	1636	USSR	28 OCT	5 NOV 65	
1965 085B		1638	USSR	28 OCT	3 NOV 65	
1965 086A		1637	US	28 OCT	17 NOV 65	
1965 086B		1639	US	28 OCT	1 NOV 65	
1965 087A	PROTON 2	1701	USSR	2 NOV	6 FEB 66	
1965 087B		1702	USSR	2 NOV	4 JAN 66	
1965 087C		1703	USSR	2 NOV	15 NOV 65	
1965 087D		1704	USSR	2 NOV	8 NOV 65	
1965 087E		1705	USSR	2 NOV	8 NOV 65	
1965 088A	COSMOS 95	1706	USSR	4 NOV	18 JAN 66	
1965 088B		1707	USSR	4 NOV	28 NOV 65	
1965 088C		1708	USSR	4 NOV	11 NOV 65	
1965 088D		1740	USSR	4 NOV	6 JAN 66	
1965 088E		1741	USSR	4 NOV	13 DEC 65	
1965 088F		1754	USSR	4 NOV	11 NOV 65	
1965 088G		1785	USSR	4 NOV	16 NOV 65	
1965 088H		1786	USSR	4 NOV	9 NOV 65	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 08RJ		1787	USSR	4 NOV	9 NOV 65	
1965 088K		1783	USSR	4 NOV	19 NOV 65	
1965 089L		1739	USSR	4 NOV	28 NOV 65	
1965 088M		1790	USSR	4 NOV	12 NOV 65	
1965 088N		1791	USSR	4 NOV	7 NOV 65	
1965 088P		1792	USSR	4 NOV	16 NOV 65	
1965 088Q		1793	USSR	4 NOV	7 NOV 65	
1965 088R		1794	USSR	4 NOV	23 NOV 65	
1965 088S		1795	USSR	4 NOV	8 NOV 65	
1965 088T		1796	USSR	4 NOV	15 NOV 65	
1965 088U		1797	USSR	4 NOV	11 NOV 65	
1965 088V		1798	USSR	4 NOV	28 NOV 65	
1965 088W		1799	USSR	4 NOV	28 NOV 65	
1965 088X		1800	USSR	4 NOV	28 NOV 65	
1965 088Y		1801	USSR	4 NOV	28 NOV 65	
1965 088Z		1802	USSR	4 NOV	28 NOV 65	
1965 090A		1727	US	8 NOV	11 NOV 65	
1965 090B		1728	US	8 NOV	9 NOV 65	
1965 091B		1731	USSR	12 NOV	17 NOV 65	
1965 091C		1732	USSR	12 NOV	25 NOV 65	
1965 092A	VENERA 3	1733	USSR	16 NOV	1 MAR 66	N*
1965 092B		1734	USSR	16 NOV	26 NOV 65	
1965 092C		1735	USSR	16 NOV	3 DEC 65	
1965 092E		1737	USSR	16 NOV	16 NOV 65	
1965 094A	COSMOS 96	1742	USSR	23 NOV	9 DEC 65	
1965 094B		1743	USSR	23 NOV	4 DEC 65	
1965 094C		1771	USSR	23 NOV	28 NOV 65	
1965 094D		1772	USSR	23 NOV	28 NOV 65	
1965 094E		1773	USSR	23 NOV	29 NOV 65	
1965 094F		1774	USSR	23 NOV	28 NOV 65	
1965 094G		1775	USSR	23 NOV	8 DEC 65	
1965 094H		1776	USSR	23 NOV	8 DEC 65	
1965 095A	COSMOS 97	1777	USSR	26 NOV	2 APR 67	
1965 095B		1779	USSR	26 NOV	21 FEB 67	
1965 095C		1782	USSR	26 NOV	21 JAN 66	
1965 095D		1783	USSR	26 NOV	21 JAN 66	
1965 096C	COSMOS 98	1938	FRANCE	26 NOV	25 MAR 67	
1965 097A		1780	USSR	27 NOV	5 DEC 65	
1965 097B		1781	USSR	27 NOV	23 JAN 66	
1965 097C		1803	USSR	27 NOV	8 DEC 65	
1965 099A	LUNA 8	1810	USSR	3 DEC	6 DEC 65	A*
1965 099B		1809	USSR	3 DEC	5 DEC 65	
1965 099C		1811	USSR	3 DEC	6 DEC 65	F*
1965 100A	GEMINI 7	1812	US	4 DEC	18 DEC 65	
1965 100B		1913	US	4 DEC	7 DEC 65	
1965 100C		1845	US	4 DEC	27 JAN 65	
1965 101C		1934	FRANCE	6 DEC	10 DEC 81	
1965 101D		1935	FRANCE	5 DEC	10 NOV 80	
1965 102A		1816	US	9 DEC	26 DEC 55	
1965 102B		1838	US	9 DEC	15 DEC 65	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 103A	COSMOS 99	1817	USSR	10 DEC	18 DEC 65	
1965 103B		1818	USSR	10 DEC	28 DEC 65	
1965 104A	GEMINI 6	1839	US	15 DEC	16 DEC 65	F*
1965 104B		1840	US	15 DEC	16 DEC 65	
1965 1058		1842	US	16 DEC	6 SEP 68	
1965 107A		1846	USSR	21 DEC	12 JUL 66	
1965 107B		1847	USSR	21 DEC	16 APR 66	
1965 108A	COSMOS 101	1863	US	21 DEC	17 AUG 75	
1965 108B	TITAN 3 C-8	1870	US	21 DEC	1 AUG 77	
1965 108C	LES 4	1902	US	21 DEC	12 APR 76	
1965 108D	OSCAR 4	1941	US	21 DEC	6 APR 68	
1965 108E	LES 3	3999	US	21 DEC	21 AUG 69	
1965 108F		4429	US	21 DEC	3 NOV 75	
1965 108G		4476	US	21 DEC	1 AUG 77	
1965 108H		5472	US	21 DEC	25 NOV 72	
1965 108J		5474	US	21 DEC	3 FEB 73	
1965 108K		5980	US	21 DEC	12 APR 76	
1965 110A		1866	US	24 DEC	20 JAN 66	
1965 110B		1901	US	24 DEC	6 JAN 66	
1965 111A	COSMOS 102	1867	USSR	27 DEC	13 JAN 66	
1965 112A	COSMOS 103	1868	USSR	28 DEC	2 JAN 90	
1965 112B		1869	USSR	28 DEC	15 JUN 82	
1965 112C		1871	USSR	28 DEC	25 APR 67	
1965 112D		1872	USSR	28 DEC	27 DEC 67	
1965 112E		1873	USSR	28 DEC	21 APR 67	
1965 112F		1874	USSR	28 DEC	1 MAY 68	
1965 112G		1875	USSR	28 DEC	17 FEB 68	
1965 112H		1876	USSR	28 DEC	12 MAR 68	
1965 112J		1877	USSR	28 DEC	22 MAR 68	
1965 112K		1878	USSR	28 DEC	2 JUL 70	
1965 112L		1906	USSR	28 DEC	19 OCT 68	
1965 112M		1907	USSR	28 DEC	16 OCT 68	
1965 112N		1933	USSR	28 DEC	5 JUL 67	
1965 112P		1936	USSR	28 DEC	7 APR 69	
1965 LAUNCHES						
1966 000A		2428	US	UNKN	18 SEP 77	Q*
1966 000B		2429	US	UNKN	1 JAN 79	Q*
1966 000C		2430	US	UNKN	1 JAN 79	Q*
1966 000D		2633	US	UNKN	30 DEC 66	Q*
1966 001A	COSMOS 104	1903	USSR	7 JAN	15 JAN 66	
1966 001B		1904	USSR	7 JAN	24 JAN 66	
1966 001C		1905	USSR	7 JAN	12 JAN 66	
1966 002A		1939	US	19 JAN	25 JAN 66	
1966 002B		1940	US	19 JAN	23 JAN 65	
1966 003A	COSMOS 105	1945	USSR	22 JAN	30 JAN 66	
1966 003B		1946	USSR	22 JAN	10 FEB 66	
1966 003C		1947	USSR	22 JAN	24 JAN 66	
1966 004A	COSMOS 106	1949	USSR	25 JAN	14 NOV 66	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 004B		1950	USSR	25 JAN	16 JUL 66	
1966 005G		4587	US	28 JAN	4 OCT 81	
1966 005H		11990	US	28 JAN	11 JAN 83	
1966 005K		14225	US	28 JAN	15 JUL 89	
1966 005L		15341	US	28 JAN	10 DEC 89	
1966 005M		19366	US	28 JAN	24 APR 90	
1966 006A	LUNA 9	1954	USSR	31 JAN	3 FEB 66	R*
1966 006B		1955	USSR	31 JAN	2 FEB 66	
1966 006C		1966	USSR	31 JAN	31 JAN 66	
1966 007A		1968	US	2 FEB	27 FEB 66	
1966 009A		1997	US	9 FEB	26 SEP 69	
1966 009B		2003	US	9 FEB	18 NOV 66	
1966 009C		2004	US	9 FEB	18 NOV 66	
1966 010A	COSMOS 107	1998	USSR	10 FEB	18 FEB 66	
1966 010B		2000	USSR	10 FEB	28 FEB 66	
1966 010C		2005	USSR	10 FEB	12 FEB 66	
1966 010D		2006	USSR	10 FEB	12 FEB 66	
1966 011A		2002	USSR	11 FEB	21 NOV 66	
1966 011B		2007	USSR	11 FEB	1 JUN 66	
1966 011C		2008	USSR	11 FEB	27 MAR 66	
1966 012A		2012	US	15 FEB	22 FEB 66	
1966 012B		2014	US	15 FEB	16 FEB 66	
1966 012C		2015	US	15 FEB	22 FEB 66	
1966 012D		2025	US	15 FEB	18 FEB 66	
1966 012E		2026	US	15 FEB	17 FEB 66	
1966 012F		2027	US	15 FEB	17 FEB 66	
1966 012G		2028	US	15 FEB	18 FEB 66	
1966 012H		2029	US	15 FEB	19 FEB 66	
1966 012J		2030	US	15 FEB	19 FEB 66	
1966 012K		2031	US	15 FEB	20 FEB 66	
1966 012L		2032	US	15 FEB	17 FEB 66	
1966 012M		2033	US	15 FEB	18 FEB 66	
1966 012N		2034	US	15 FEB	19 FEB 66	
1966 012P		2035	US	15 FEB	17 FEB 66	
1966 012Q		2036	US	15 FEB	18 FEB 66	
1966 012R		2037	US	15 FEB	20 FEB 66	
1966 012S		2038	US	15 FEB	19 FEB 66	
1966 012T		2039	US	15 FEB	16 FEB 66	
1966 012U		2040	US	15 FEB	18 FEB 66	
1966 012V		2056	US	15 FEB	20 FEB 66	
1966 012W		2057	US	15 FEB	21 FEB 66	
1966 012X		2058	US	15 FEB	18 FEB 66	
1966 012Y		2059	US	15 FEB	18 FEB 66	
1966 012Z		2060	US	15 FEB	18 FEB 66	
1966 012AA		2061	US	15 FEB	19 FEB 66	
1966 012AB		2062	US	15 FEB	22 FEB 66	
1966 012AC		2063	US	15 FEB	17 FEB 66	
1966 012AD		2064	US	15 FEB	22 FEB 66	
1966 012AE		2065	US	15 FEB	19 FEB 66	
1966 012AF		2066	US	15 FEB	19 FEB 66	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1965 012AG		2067	US	15 FEB	17 FEB 66	
1966 012AM		2068	US	15 FEB	17 FEB 66	
1965 012AJ		2069	US	15 FEB	20 FEB 66	
1966 012AK		2072	US	15 FEB	18 FEB 66	
1966 012AL		2073	US	15 FEB	17 FEB 66	
1965 012AM		2074	US	15 FEB	18 FEB 66	
1966 012AN		2075	US	15 FEB	17 FEB 66	
1966 012AP		2076	US	15 FEB	19 FEB 66	
1966 012AQ		2077	US	15 FEB	18 FEB 66	
1966 012AR		2078	US	15 FEB	19 FEB 66	
1966 013C		2078	FRANCE	17 FEB	5 DEC 67	
1966 013D		2020	FRANCE	17 FEB	11 SEP 67	
1965 013E		2021	FRANCE	17 FEB	25 AUG 67	
1965 013F		2023	FRANCE	17 FEB	16 JUL 91	
1966 013H		2093	FRANCE	17 FEB	1 MAR 68	
1966 013J		3970	FRANCE	17 FEB	28 MAY 81	
1966 013K		5420	FRANCE	17 FEB	22 NOV 82	
1966 013L		5959	FRANCE	17 FEB	21 NOV 78	
1966 013M		6784	FRANCE	17 FEB	15 MAR 74	
1966 013N		14844	FRANCE	17 FEB	8 NOV 88	
1966 013P		14845	FRANCE	17 FEB	23 APR 89	
1966 013Q		19049	FRANCE	17 FEB	22 JAN 89	
1966 014A	COSMOS 109	2019	USSR	19 FEB	27 FEB 66	
1966 014B		2022	USSR	19 FEB	27 FEB 66	
1966 014C		2024	USSR	19 FEB	21 FEB 66	
1966 015A	COSMOS 110	2070	USSR	22 FEB	16 MAR 66	
1966 015B		2071	USSR	22 FEB	29 APR 66	
1966 015C		2089	USSR	22 FEB	5 MAR 66	
1966 015D		2090	USSR	22 FEB	5 MAR 66	
1966 017A	COSMOS 111	2093	USSR	1 MAR	3 MAR 66	
1966 017B		2094	USSR	1 MAR	1 MAR 66	
1966 017C		2095	USSR	1 MAR	2 MAR 66	
1966 018A		2099	US	9 MAR	29 MAR 66	
1966 018B		2113	US	9 MAR	22 MAR 66	
1966 019A	AGENA TARGET VEHICLE	2104	US	16 MAR	15 SEP 67	
1966 020A	GEMINI 8	2105	US	16 MAR	17 MAR 66	
1966 020B		2106	US	16 MAR	17 MAR 66	
1966 020C		2115	US	16 MAR	18 APR 66	
1966 021A	COSMOS 112	2107	USSR	17 MAR	25 MAR 66	
1966 021B		2109	USSR	17 MAR	17 MAY 66	
1966 021C		2110	USSR	17 MAR	25 MAR 66	
1966 021D		2111	USSR	17 MAR	25 MAR 66	
1966 022A		2109	US	18 MAR	24 MAR 66	
1966 022B		2112	US	18 MAR	23 MAR 66	
1966 023A	COSMOS 113	2114	USSR	21 MAR	29 MAR 66	
1966 023B		2115	USSR	21 MAR	30 MAR 66	
1966 023C		2117	USSR	21 MAR	22 MAR 66	
1966 024C		2385	US	26 MAR	14 FEB 83	
1966 024D		3590	US	26 MAR	18 APR 79	
1966 024E		12856	US	26 MAR	20 JUL 88	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 025F		4007	US	30 MAR	12 APR 77	
1966 026C		2162	US	31 MAR	11 FEB 67	
1966 026E		2178	US	31 MAR	6 JAN 83	
1966 027B		2127	US	31 MAR	4 APR 66	
1966 027C		2128	USSR	31 MAR	2 APR 66	
1966 028A		2133	USSR	6 APR	14 APR 66	
1966 028B		2134	USSR	6 APR	14 APR 66	
1966 028C		2135	USSR	6 APR	10 APR 66	
1966 028D		2137	USSR	6 APR	10 APR 66	
1966 028E		2138	USSR	6 APR	9 APR 66	
1966 029A		2136	US	7 APR	26 APR 66	
1966 030A		2139	US	8 APR	5 MAY 66	
1966 030B		2143	US	8 APR	17 APR 66	
1966 031C		2145	US	8 APR	31 OCT 81	
1966 032A		2146	US	19 APR	26 APR 66	
1966 032B		2148	US	19 APR	22 APR 66	
1966 033A		2147	USSR	20 APR	28 APR 66	
1966 033B		2149	USSR	20 APR	30 APR 66	
1966 034C		2208	US	22 APR	5 DEC 76	
1966 034D		2209	US	22 APR	4 DEC 89	
1966 034E		9998	US	22 APR	1 DEC 82	
1966 035A		2151	USSR	25 APR	11 JUN 73	
1966 035B		2155	USSR	25 APR	9 MAY 66	
1966 035C		2156	USSR	25 APR	8 MAY 66	
1966 035D		2157	USSR	25 APR	29 APR 66	
1966 035E		2160	USSR	25 APR	29 APR 66	
1966 035F		3222	USSR	25 APR	18 JUN 73	
1966 036A		2152	USSR	26 APR	3 DEC 65	
1966 036B		2159	USSR	26 APR	15 AUG 66	
1966 037A		2163	USSR	6 MAY	14 MAY 66	
1966 037B		2164	USSR	6 MAY	21 MAY 66	
1966 037C		2165	USSR	6 MAY	7 MAY 66	
1966 037D		2166	USSR	6 MAY	8 MAY 66	
1966 037E		2170	USSR	6 MAY	16 MAY 66	
1966 038A		2168	USSR	11 MAY	23 NOV 88	
1966 038B		2169	USSR	11 MAY	12 JUL 89	
1966 039A		2171	US	14 MAY	21 MAY 66	
1966 039B		2172	US	14 MAY	27 OCT 70	
1966 039C		2175	US	14 MAY	17 MAY 66	
1966 042A		2181	US	24 MAY	9 JUN 66	
1966 043A		2182	USSR	24 MAY	30 NOV 66	
1966 044A		2183	US	25 MAY	22 FEB 85	
1966 044B		2184	US	25 MAY	19 JUN 69	
1966 044C		2336	US	25 MAY	31 AUG 69	
1966 045A		2185	US	30 MAY	2 JUN 66	
1966 046A		2186	US	1 JUN	11 JUN 66	
1966 046B		2188	US	1 JUN	22 JUN 65	
1966 046C		2189	US	1 JUN	5 JUN 66	
1966 046D		2190	US	1 JUN	5 JUN 66	
1966 046E		2228	US	1 JUN	30 JUN 66	
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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 046F		2229	US	1 JUN	30 JUN 66	
1966 046G		2230	US	1 JUN	30 JUN 66	
1966 046H		2231	US	1 JUN	30 JUN 66	
1966 046J		2232	US	1 JUN	30 JUN 66	
1966 046K		2233	US	1 JUN	21 JUN 66	
1966 046L		2234	US	1 JUN	23 JUN 66	
1966 046M		2235	US	1 JUN	23 JUN 66	
1966 046N		2236	US	1 JUN	22 JUN 66	
1966 046P		2237	US	1 JUN	23 JUN 66	
1966 046Q		2238	US	1 JUN	22 JUN 66	
1966 046R		2239	US	1 JUN	22 JUN 66	
1966 046S		2240	US	1 JUN	23 JUN 66	
1966 046T		2241	US	1 JUN	22 JUN 66	
1966 046U		2242	US	1 JUN	27 JUN 66	
1966 046V		2243	US	1 JUN	21 JUN 66	
1966 046W		2244	US	1 JUN	23 JUN 66	
1966 046X		2245	US	1 JUN	22 JUN 66	
1966 046Y		2246	US	1 JUN	21 JUN 66	
1966 046Z		2247	US	1 JUN	21 JUN 66	
1966 046AA		2248	US	1 JUN	23 JUN 66	
1966 046AB		2249	US	1 JUN	4 JUL 66	
1966 046AC		2250	US	1 JUN	29 JUN 66	
1966 046AD		2251	US	1 JUN	25 JUN 66	
1966 046AE		2252	US	1 JUN	23 JUN 66	
1966 046AF		2264	US	1 JUN	4 JUL 66	
1966 046AG		2265	US	1 JUN	4 JUL 66	
1966 046AH		2266	US	1 JUN	4 JUL 66	
1966 046AJ		2267	US	1 JUN	4 JUL 66	
1966 046AK		2268	US	1 JUN	4 JUL 66	
1966 046AL		2269	US	1 JUN	4 JUL 66	
1966 046AM		2270	US	1 JUN	4 JUL 66	
1966 046AN		2271	US	1 JUN	4 JUL 66	
1966 046AP		2272	US	1 JUN	4 JUL 66	
1966 046AQ		2273	US	1 JUN	4 JUL 66	
1966 046AR		2274	US	1 JUN	4 JUL 66	
1966 046AS		2275	US	1 JUN	4 JUL 66	
1966 046AT		2276	US	1 JUN	4 JUL 66	
1966 046AU		2277	US	1 JUN	4 JUL 66	
1966 046AV		2278	US	1 JUN	4 JUL 66	
1966 046AW		2279	US	1 JUN	4 JUL 66	
1966 046AX		2280	US	1 JUN	4 JUL 66	
1966 046AY		2281	US	1 JUN	4 JUL 66	
1966 046AZ		2282	US	1 JUN	4 JUL 66	
1966 046BA		2283	US	1 JUN	4 JUL 66	
1966 046BB		2284	US	1 JUN	4 JUL 66	
1966 046BC		2285	US	1 JUN	4 JUL 66	
1966 046BD		2286	US	1 JUN	4 JUL 66	
1966 046BE		2287	US	1 JUN	4 JUL 66	
1966 046BF		2288	US	1 JUN	4 JUL 66	
1966 047A	GEMINI 9	2191	US	3 JUN	6 JUN 66	F*

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 047B		2193	US	3 JUN	4 JUN 66	
1966 049A		2192	US	3 JUN	9 JUN 66	
1966 049B		2194	US	3 JUN	9 JUN 66	
1966 050A	COSMOS 120	2196	USSR	8 JUN	16 JUN 66	
1966 050B		2197	USSR	8 JUN	12 JUN 66	
1966 050C		2198	USSR	8 JUN	11 JUN 66	
1966 050D		2199	USSR	8 JUN	9 JUN 66	
1966 051A		2200	US	9 JUN	3 DEC 66	
1966 051B		2205	US	9 JUN	6 JUL 67	
1966 051C	SECOR (EGRS) 6	2202	US	9 JUN	12 MAR 67	
1966 054A	ERS 16	2210	USSR	17 JUN	25 JUN 66	
1966 054B	COSMOS 121	2211	USSR	17 JUN	26 JUN 66	
1966 054C		2212	USSR	17 JUN	19 JUN 66	
1966 054D		2213	USSR	17 JUN	20 JUN 66	
1966 054E		2214	USSR	17 JUN	20 JUN 66	
1966 055A		2227	US	21 JUN	14 JUL 66	
1966 055B		2261	US	21 JUN	4 JUL 66	
1966 056E		6064	US	24 JUN	3 JAN 90	
1966 056F		8065	US	24 JUN	18 APR 78	
1966 056J		8075	US	24 JUN	19 FEB 77	
1966 056K		8076	US	24 JUN	4 SEP 84	
1966 056L		8077	US	24 JUN	1 APR 77	
1966 056M		8078	US	24 JUN	19 FEB 77	
1966 056N		8079	US	24 JUN	12 JAN 86	
1966 056P		8080	US	24 JUN	21 JAN 77	
1966 056Q		8081	US	24 JUN	22 MAY 77	
1966 056K		9452	US	24 JUN	8 MAR 77	
1966 056S		9453	US	24 JUN	13 APR 81	
1966 056T		9454	US	24 JUN	8 FEB 77	
1966 056U		9455	US	24 JUN	3 MAR 77	
1966 056V		9456	US	24 JUN	14 FEB 77	
1966 056W		9457	US	24 JUN	20 AUG 77	
1966 056X		9458	US	24 JUN	29 JUN 77	
1966 056Y		9459	US	24 JUN	2 JUL 77	
1966 056Z		9460	US	24 JUN	9 JAN 90	
1966 056AA		9461	US	24 JUN	16 DEC 77	
1966 056AB		9462	US	24 JUN	9 FEB 77	
1966 056AC		9463	US	24 JUN	13 APR 81	
1966 056AD		9464	US	24 JUN	22 AUG 80	
1966 056AE		9465	US	24 JUN	13 APR 81	
1966 056AF		9465	US	24 JUN	2 FEB 89	
1966 056AG		9467	US	24 JUN	18 APR 77	
1966 056AJ		9469	US	24 JUN	25 NOV 82	
1966 056AK		9739	US	24 JUN	20 JAN 77	
1966 056AL		9740	US	24 JUN	20 JAN 77	
1966 056AM		9741	US	24 JUN	20 JAN 77	
1966 056AN		9742	US	24 JUN	20 JAN 77	
1966 056AP		9743	US	24 JUN	20 JAN 77	
1966 056AQ		9744	US	24 JUN	20 JAN 77	
1966 056AR		9745	US	24 JUN	20 JAN 77	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1965 LAUNCHES (CONT.)						
1966 056AS		9746	US	24 JUN	20 JAN 77	
1966 056AT		9747	US	24 JUN	20 JAN 77	
1966 056AU		9748	US	24 JUN	20 JAN 77	
1966 056AV		9749	US	24 JUN	20 JAN 77	
1966 056AW		9750	US	24 JUN	20 JAN 77	
1966 056AX		9751	US	24 JUN	20 JAN 77	
1966 056AY		9752	US	24 JUN	20 JAN 77	
1966 056AZ		9753	US	24 JUN	20 JAN 77	
1966 056BA		9754	US	24 JUN	20 JAN 77	
1966 056B3		9755	US	24 JUN	20 JAN 77	
1966 056BC		9756	US	24 JUN	20 JAN 77	
1966 056BD		9757	US	24 JUN	20 JAN 77	
1966 056BE		9758	US	24 JUN	20 JAN 77	
1966 056BF		9759	US	24 JUN	20 JAN 77	
1966 056BG		9760	US	24 JUN	20 JAN 77	
1966 056BH		9761	US	24 JUN	20 JAN 77	
1966 056BJ		9762	US	24 JUN	20 JAN 77	
1966 056BK		9763	US	24 JUN	20 JAN 77	
1966 056BL		9764	US	24 JUN	20 JAN 77	
1966 056BM		9765	US	24 JUN	20 JAN 77	
1966 056BN		9766	US	24 JUN	20 JAN 77	
1966 056BP		9767	US	24 JUN	20 JAN 77	
1966 056BQ		9768	US	24 JUN	20 JAN 77	
1966 056BR		9769	US	24 JUN	20 JAN 77	
1966 056BS		9770	US	24 JUN	20 JAN 77	
1966 056BT		9771	US	24 JUN	20 JAN 77	
1966 056BU		9772	US	24 JUN	20 JAN 77	
1966 056BV		9773	US	24 JUN	20 JAN 77	
1966 056BW		9774	US	24 JUN	20 JAN 77	
1966 056BX		9775	US	24 JUN	20 JAN 77	
1966 056BY		9776	US	24 JUN	20 JAN 77	
1966 056BZ		9777	US	24 JUN	20 JAN 77	
1966 056CA		9778	US	24 JUN	20 JAN 77	
1966 056CB		9779	US	24 JUN	20 JAN 77	
1966 056CC		9780	US	24 JUN	20 JAN 77	
1966 056CD		9781	US	24 JUN	20 JAN 77	
1966 056CE		9782	US	24 JUN	20 JAN 77	
1966 056CF		9783	US	24 JUN	20 JAN 77	
1966 056CG		13795	US	24 JUN	25 APR 87	
1966 056CH		18641	US	24 JUN	20 DEC 89	
1966 057A	COSMOS 122	2254	USSR	25 JUN	14 NOV 89	
1966 057B		2257	USSR	25 JUN	20 JAN 84	
1966 058B		2259	US	1 JUL	17 NOV 66	
1966 058D		2262	US	1 JUL	7 SEP 66	
1966 053E		2263	US	1 JUL	29 AUG 65	
1966 059A	AS 203	2269	US	5 JUL	5 JUL 66	
1966 059b		2291	US	5 JUL	18 JUL 66	
1966 059C		2297	US	5 JUL	12 JUL 66	
1966 059D		2298	US	5 JUL	12 JUL 66	
1966 059E		2299	US	5 JUL	11 JUL 66	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 059F		2300	US	5 JUL	12 JUL 66	
1966 059G		2301	US	5 JUL	11 JUL 66	
1966 059H		2302	US	5 JUL	10 JUL 66	
1966 059J		2303	US	5 JUL	12 JUL 66	
1966 059K		2304	US	5 JUL	11 JUL 66	
1966 059L		2305	US	5 JUL	11 JUL 66	
1966 059M		2306	US	5 JUL	11 JUL 66	
1966 059N		2307	US	5 JUL	11 JUL 66	
1966 059P		2308	US	5 JUL	19 JUL 66	
1966 059Q		2309	US	5 JUL	14 JUL 66	
1966 059R		2310	US	5 JUL	15 JUL 66	
1966 059S		2311	US	5 JUL	19 JUL 66	
1966 059T		2312	US	5 JUL	16 JUL 66	
1966 059U		2313	US	5 JUL	15 JUL 66	
1966 059V		2314	US	5 JUL	15 JUL 66	
1966 059W		2315	US	5 JUL	16 JUL 66	
1966 059X		2316	US	5 JUL	16 JUL 66	
1966 059Y		2317	US	5 JUL	17 JUL 66	
1966 059Z		2318	US	5 JUL	18 JUL 66	
1966 059AA		2319	US	5 JUL	20 JUL 66	
1966 059AB		2320	US	5 JUL	19 JUL 66	
1966 059AC		2321	US	5 JUL	18 JUL 66	
1966 059AD		2341	US	5 JUL	15 JUL 66	
1966 059AE		2342	US	5 JUL	20 JUL 66	
1966 059AF		2343	US	5 JUL	20 JUL 66	
1966 059AG		2344	US	5 JUL	20 JUL 66	
1966 059AH		2345	US	5 JUL	18 JUL 66	
1966 059AJ		2346	US	5 JUL	19 JUL 66	
1966 059AK		2347	US	5 JUL	19 JUL 66	
1966 059AL		2352	US	5 JUL	22 JUL 66	
1966 060A	PROTON 3	2290	USSR	6 JUL	16 SEP 66	
1966 060B		2293	USSR	6 JUL	21 AUG 66	
1966 060C		2294	USSR	6 JUL	19 JUL 66	
1966 060D		2292	USSR	6 JUL	11 JUL 66	
1966 061A	COSMOS 123	2295	USSR	8 JUL	10 DEC 66	
1966 061B		2296	USSR	3 JUL	2 OCT 66	
1966 062A		2322	US	12 JUL	20 JUL 66	
1966 062B		2323	US	12 JUL	14 JUL 66	
1966 063A	OVI-8	2324	US	14 JUL	4 JAN 78	
1966 064A	COSMOS 124	2325	USSR	14 JUL	22 JUL 66	
1966 064B		2326	USSR	14 JUL	19 JUL 66	
1966 064C		2330	USSR	14 JUL	17 JUL 66	
1966 064D		2331	USSR	14 JUL	16 JUL 66	
1966 064E		2332	USSR	14 JUL	19 JUL 66	
1966 065A	AGENA TARGET VEHICLE	2344	US	18 JUL	29 DEC 66	
1966 065A	GEMINI 10	2349	US	13 JUL	21 JUL 66	
1966 066B		2350	US	18 JUL	19 JUL 66	
1966 066C		2354	US	18 JUL	14 AUG 66	
1966 066D		2355	US	18 JUL	18 SEP 66	
1966 066E		2356	US	18 JUL	18 APR 67	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECAYED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)							
1966 066F		2357		US	18 JUL	15 OCT 66	
1966 066G		2358		US	18 JUL	12 AUG 66	
1966 066H		2382		US	18 JUL	20 OCT 66	
1966 066J		2383		US	18 JUL	17 JAN 67	
1966 066K		2388		US	18 JUL	26 FEB 67	
1966 067A	COSMOS 125	2351		USSR	20 JUL	2 AUG 66	
1966 068A	COSMOS 126	2368		USSR	28 JUL	6 AUG 66	
1966 068B		2369		USSR	28 JUL	10 AUG 66	
1966 068C		2370		USSR	28 JUL	30 JUL 66	
1966 069A		2376		US	28 JUL	6 AUG 66	
1966 070C		2521		US	4 AUG	30 JUN 74	
1966 071A	COSMOS 127	2391		USSR	8 AUG	16 AUG 66	
1966 071B		2392		USSR	8 AUG	12 AUG 66	
1966 072A		2393		US	9 AUG	11 SEP 66	G*
1966 073A	LUNAR ORBITER 1	2394		US	10 AUG	29 OCT 66	
1966 074A		2396		US	16 AUG	24 AUG 66	
1966 074B		2397		US	16 AUG	5 MAR 70	
1966 074C		2400		US	16 AUG	18 AUG 66	
1966 075B		2399		US	17 AUG	7 AUG 67	
1966 075D		2405		US	17 AUG	26 FEB 67	
1966 075E		2572		US	17 AUG	9 MAR 67	
1966 076E		7558		US	18 AUG	2 SEP 81	
1966 076F		8000		US	18 AUG	11 SEP 81	
1966 076G		9401		US	18 AUG	25 MAR 82	
1966 078B		2407		USSR	24 AUG	25 AUG 66	
1966 078C		2408		USSR	24 AUG	26 AUG 66	
1966 079A	COSMOS 128	2409		USSR	27 AUG	4 SEP 66	
1966 079B		2410		USSR	27 AUG	7 SEP 66	
1966 080A	AGENA TARGET VEHICLE	2414		US	12 SEP	30 DEC 66	
1966 081A	GEMINI 11	2415		US	12 SEP	15 SEP 66	F*
1966 081B		2416		US	12 SEP	13 SEP 66	
1966 081C		2417		US	12 SEP	8 OCT 66	
1966 081D		2421		US	12 SEP	20 SEP 66	
1966 083A		2419		US	16 SEP	23 SEP 66	
1966 083B		2420		US	16 SEP	9 MAY 68	
1966 083C		2423		US	16 SEP	18 SEP 66	
1966 083D		2424		US	16 SEP	30 OCT 66	
1966 084A		2425		US	20 SEP	23 SEP 66	G*
1966 085A	SURVEYOR 2	2427		US	20 SEP	12 OCT 66	
1966 085B		2434		US	20 SEP	8 OCT 66	
1966 086A		2433		US	28 SEP	7 OCT 66	
1966 088A		2437		USSR	17 SEP	11 NOV 66	X*
1966 088B		2438		USSR	17 SEP	4 MAR 67	
1966 089C		2439		USSR	17 SEP	10 OCT 66	
1966 089D		2440		USSR	17 SEP	18 OCT 66	
1966 088E		2441		USSR	17 SEP	23 JUN 67	
1966 088F		2442		USSR	17 SEP	25 SEP 66	
1966 088G		2443		USSR	17 SEP	20 SEP 66	
1966 088H		2444		USSR	17 SEP	25 SEP 66	
1966 088J		2445		USSR	17 SEP	24 SEP 66	

INTER- NATIONAL DESIGNATION

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1966 LAUNCHES (CONT.)

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECAYED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1966 088K		2446		USSR	17 SEP	3 OCT 66	
1966 088L		2447		USSR	17 SEP	3 OCT 66	
1966 088M		2448		USSR	17 SEP	1 OCT 66	
1966 088N		2449		USSR	17 SEP	30 SEP 66	
1966 088P		2450		USSR	17 SEP	26 SEP 66	
1966 088Q		2451		USSR	17 SEP	2 OCT 66	
1966 088R		2452		USSR	17 SEP	17 SEP 66	
1966 088S		2453		USSR	17 SEP	4 OCT 66	
1966 088T		2454		USSR	17 SEP	2 OCT 66	
1966 088U		2455		USSR	17 SEP	4 OCT 66	
1966 088V		2456		USSR	17 SEP	28 SEP 66	
1966 088W		2457		USSR	17 SEP	26 SEP 66	
1966 088X		2458		USSR	17 SEP	30 SEP 66	
1966 088Y		2459		USSR	17 SEP	3 OCT 66	
1966 088Z		2460		USSR	17 SEP	22 SEP 66	
1966 088AA		2461		USSR	17 SEP	24 SEP 66	
1966 088AB		2462		USSR	17 SEP	27 SEP 66	
1966 088AC		2463		USSR	17 SEP	26 SEP 66	
1966 088AD		2464		USSR	17 SEP	27 SEP 66	
1966 088AE		2465		USSR	17 SEP	25 SEP 66	
1966 088AF		2466		USSR	17 SEP	28 SEP 66	
1966 088AG		2467		USSR	17 SEP	26 SEP 66	
1966 088AH		2468		USSR	17 SEP	22 SEP 66	
1966 088AJ		2469		USSR	17 SEP	24 SEP 66	
1966 088AK		2470		USSR	17 SEP	24 SEP 66	
1966 088AL		2471		USSR	17 SEP	25 SEP 66	
1966 088AM		2472		USSR	17 SEP	25 SEP 66	
1966 088AN		2473		USSR	17 SEP	27 SEP 66	
1966 088AP		2474		USSR	17 SEP	23 SEP 66	
1966 088AQ		2475		USSR	17 SEP	23 SEP 66	
1966 088AR		2476		USSR	17 SEP	27 SEP 66	
1966 088AS		2477		USSR	17 SEP	30 SEP 66	
1966 088AT		2478		USSR	17 SEP	27 SEP 66	
1966 088AU		2479		USSR	17 SEP	3 OCT 66	
1966 088AV		2480		USSR	17 SEP	25 SEP 66	
1966 088AW		2482		USSR	17 SEP	18 OCT 66	
1966 088AX		2483		USSR	17 SEP	8 OCT 66	
1966 088AY		2484		USSR	17 SEP	9 FEB 67	
1966 088AZ		2485		USSR	17 SEP	12 NOV 66	
1966 088BA		2486		USSR	17 SEP	21 OCT 66	
1966 088BB		2487		USSR	17 SEP	18 OCT 66	
1966 088BC		2488		USSR	17 SEP	10 OCT 66	
1966 088BD		2506		USSR	17 SEP	21 OCT 66	
1966 088BE		2507		USSR	17 SEP	21 OCT 66	
1966 090A		2489		US	12 OCT	20 OCT 66	
1966 090B		2490		US	12 OCT	21 OCT 66	
1966 090C		2494		US	12 OCT	16 OCT 66	
1966 090D		2495		US	12 OCT	16 OCT 66	
1966 091A		2491		USSR	14 OCT	21 OCT 66	
1966 091B		2492		USSR	14 OCT	23 OCT 66	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 092A	MOLNIYA 1-4	2501	USSR	20 OCT	11 SEP 68	
1966 092B		2503	USSR	20 OCT	10 NOV 66	
1966 092C		2505	USSR	20 OCT	2 NOV 66	
1966 092D		3223	USSR	20 OCT	5 JUN 69	
1966 093A	COSMOS 130	2502	USSR	20 OCT	28 OCT 66	
1966 093B		2504	USSR	20 OCT	29 OCT 66	
1966 094B		2509	USSR	22 OCT	24 OCT 66	
1966 094C		2510	USSR	22 OCT	23 OCT 66	
1966 095A	AC 9	2512	US	26 OCT	6 NOV 66	
1966 096B		2515	US	26 OCT	9 FEB 67	
1966 097A		2517	US	28 OCT	29 SEP 71	
1966 097B		2519	US	28 OCT	28 JAN 70	
1966 097C	OV3-2	2613	US	28 OCT	20 SEP 67	
1966 097D		2614	US	28 OCT	20 AUG 76	
1966 098A		2523	US	2 NOV	10 NOV 66	
1966 098B		2525	US	2 NOV	16 NOV 66	
1966 097A	LUNAR ORBITER 2	2524	US	2 NOV	9 JAN 67	
1966 099B		2526	US	2 NOV	5 JAN 67	
1966 099C		2527	US	2 NOV	31 DEC 66	
1966 099D		2528	US	2 NOV	11 JAN 67	
1966 100A		2534	US	6 NOV	11 OCT 67	G*
1966 100B		2535	US	6 NOV	15 NOV 66	
1966 101A		2536	USSR	2 NOV	29 NOV 66	
1966 101B		2538	USSR	2 NOV	22 NOV 66	
1966 101C		2539	USSR	2 NOV	15 NOV 66	
1966 101D		2540	USSR	2 NOV	13 NOV 66	
1966 101E		2541	USSR	2 NOV	29 NOV 66	
1966 101F		2542	USSR	2 NOV	21 NOV 66	
1966 101G		2543	USSR	2 NOV	6 MAY 67	
1966 101H		2544	USSR	2 NOV	29 NOV 66	
1966 101J		2545	USSR	2 NOV	17 NOV 66	
1966 101K		2546	USSR	2 NOV	8 NOV 66	
1966 101L		2547	USSR	2 NOV	12 NOV 66	
1966 101M		2548	USSR	2 NOV	29 NOV 66	
1966 101N		2549	USSR	2 NOV	8 NOV 66	
1966 101P		2550	USSR	2 NOV	24 NOV 66	
1966 101Q		2551	USSR	2 NOV	8 NOV 66	
1966 101R		2552	USSR	2 NOV	6 NOV 66	
1966 101S		2553	USSR	2 NOV	8 NOV 66	
1966 101T		2554	USSR	2 NOV	7 NOV 66	
1966 101U		2555	USSR	2 NOV	20 NOV 66	
1966 101V		2556	USSR	2 NOV	8 NOV 66	
1966 101W		2557	USSR	2 NOV	8 NOV 66	
1966 101X		2558	USSR	2 NOV	7 NOV 66	
1966 101Y		2559	USSR	2 NOV	9 NOV 66	
1966 101Z		2560	USSR	2 NOV	7 NOV 66	
1966 101AA		2561	USSR	2 NOV	7 NOV 66	
1966 101AB		2562	USSR	2 NOV	8 NOV 66	
1966 101AC		2563	USSR	2 NOV	8 NOV 66	
1966 101AD		2564	USSR	2 NOV	9 NOV 66	

NOTES

1966 101AE
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1966 101AL
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1966 103A
1966 104A
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1966 104H
1966 104J
1966 104K
1966 104L
1966 104M
1966 104N
1966 104P
1966 104Q
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1966 105B
1966 106A
1966 106B
1966 107A
1966 107B
1966 108A
1966 108B
1966 108C
1966 109A
1966 109B
1966 110B
1966 112A
1966 112B
1966 112C
1966 112D
1966 112E
1966 113A
1966 114A
1966 114B

2570	2571	2575	2576	2581	2582	2583	2584	2585	2586	2587	2598	2931	2937	2941	2955	2966	2967	2977	2978	2979	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	2600	2601	2602	2603	2604	2605	2606	2607	2609	2612	2615	2616	2617	2618	2632	2623
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[illegible]

22	NOV	66	29	NOV	66	11	NOV	66	13	NOV	66	23	NOV	66	14	NOV	66	14	NOV	66	12	NOV	66	14	NOV	66	12	NOV	66	16	NOV	66	17	NOV	66	26	APR	76	23	DEC	65	15	NOV	66	12	NOV	66	15	NOV	66	16	NOV	66	4	DEC	65	1	DEC	66	18	NOV	66	18	NOV	66	18	NOV	66	18	NOV	66	20	NOV	66	22	NOV	66	27	NOV	66	27	NOV	66	30	NOV	66	29	NOV	66	11	DEC	66	10	DEC	66	4	DEC	66	14	DEC	66	8	DEC	66	15	OCT	74	12	APR	57	15	MAR	67	28	DEC	66	28	DEC	66	28	MAY	67	24	DEC	65	15	FEB	67	23	JAN	67
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AGENA TARGET VEHICLE
GEMINI 12

FZ

DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1966 LAUNCHES (CONT.)						
1966 114C		2619	US	14 DEC	10 JAN 67	
1966 114D		2631	US	14 DEC	10 JAN 67	
1966 115A	COSMOS 136	2624	USSR	19 DEC	27 DEC 66	
1966 115B		2625	USSR	19 DEC	28 DEC 66	
1966 116A	LUNA 13	2626	USSR	21 DEC	24 DEC 66	
1966 116B		2628	USSR	21 DEC	23 DEC 66	
1966 116C		2629	USSR	21 DEC	22 DEC 66	
1966 117A	COSMOS 137	2627	USSR	21 DEC	23 NOV 67	
1966 117B		2630	USSR	21 DEC	25 SEP 67	
1966 118A		2634	US	29 DEC	5 APR 69	
1966 118B		2635	US	29 DEC	23 MAR 67	
1966 118C		2636	US	29 DEC	23 MAR 67	
1967 LAUNCHES						
1967 001B		2640	US	11 JAN	13 APR 67	AA*
1967 001C		2641	US	11 JAN	24 FEB 67	
1967 001E		4901	US	11 JAN	9 FEB 71	
1967 001F		5122	US	11 JAN	30 APR 72	
1967 001G		5123	US	11 JAN	6 OCT 71	
1967 001H		5245	US	11 JAN	17 JUN 71	
1967 001J		5269	US	11 JAN	29 OCT 78	
1967 001K		5333	US	11 JAN	14 OCT 71	
1967 001L		5735	US	11 JAN	9 MAR 73	
1967 001M		5766	US	11 JAN	20 JAN 72	
1967 001N		5951	US	11 JAN	26 JUN 73	
1967 001P		5960	US	11 JAN	26 JUN 73	
1967 001Q		5961	US	11 JAN	26 JUN 73	
1967 001R		5969	US	11 JAN	26 JUN 73	
1967 001U		5989	US	11 JAN	14 SEP 75	
1967 002A		2642	US	14 JAN	7 NOV 76	
1967 002B		2662	US	14 JAN	2 FEB 67	
1967 004A	COSMOS 138	2646	USSR	19 JAN	28 JAN 67	
1967 004B		2648	USSR	19 JAN	27 JAN 67	
1967 005A	COSMOS 139	2656	USSR	25 JAN	25 JAN 67	
1967 005B		2658	USSR	25 JAN	25 JAN 67	
1967 005C		2659	USSR	25 JAN	25 JAN 67	
1967 007A		2664	US	2 FEB	12 FEB 67	
1967 007B		2665	US	2 FEB	4 FEB 67	
1967 008A	LUNAR ORBITER 3	2666	US	5 FEB	9 OCT 67	
1967 009A	COSMOS 140	2667	USSR	7 FEB	9 FEB 67	
1967 009B		2668	USSR	7 FEB	8 FEB 67	
1967 011C		2673	FRANCE	8 FEB	13 DEC 67	AB*
1967 011D		2675	FRANCE	8 FEB	3 JAN 68	
1967 011E		2676	FRANCE	8 FEB	5 DEC 67	
1967 011F		2677	FRANCE	8 FEB	12 FEB 63	
1967 011G		2688	FRANCE	8 FEB	22 JUN 80	
1967 011H		2689	FRANCE	8 FEB	20 JUN 90	
1967 011J		2690	FRANCE	8 FEB	8 MAY 68	
1967 011K		2691	FRANCE	8 FEB	29 OCT 67	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 011L		2692	FRANCE	8 FEB	21 APR 89	
1967 011M		2900	FRANCE	8 FEB	23 MAY 80	
1967 011N		2990	FRANCE	8 FEB	7 FEB 80	
1967 011P		3742	FRANCE	8 FEB	27 AUG 80	
1967 011C		4009	FRANCE	8 FEB	12 NOV 82	
1967 012A	COSMOS 141	2670	USSR	8 FEB	16 FEB 67	
1967 012B		2672	USSR	8 FEB	16 FEB 67	
1967 013A		2678	USSR	14 FEB	6 JUL 67	
1967 013B	COSMOS 142	2679	USSR	14 FEB	15 JUN 67	
1967 014D		2681	FRANCE	15 FEB	16 SEP 68	
1967 014E		2683	FRANCE	15 FEB	12 NOV 82	
1967 014G		3589	FRANCE	15 FEB	20 NOV 79	
1967 014H		3935	FRANCE	15 FEB	2 AUG 81	
1967 014K		14633	FRANCE	15 FEB	30 AUG 91	
1967 014L		15531	FRANCE	15 FEB	19 AUG 91	
1967 014P		18929	FRANCE	15 FEB	10 NOV 91	
1967 015A		2686	US	22 FEB	11 MAR 67	
1967 016A		2687	US	24 FEB	6 MAR 67	
1967 017A	COSMOS 143	2693	USSR	27 FEB	7 MAR 67	
1967 0173		2694	USSR	27 FEB	9 MAR 67	
1967 018A	COSMOS 144	2695	USSR	28 FEB	14 SEP 82	
1967 018B		2696	USSR	28 FEB	1 SEP 89	
1967 018C		3095	USSR	28 FEB	8 APR 71	
1967 019A	COSMOS 145	2697	USSR	3 MAR	8 MAR 68	
1967 019B		2698	USSR	3 MAR	1 DEC 67	
1967 020A	OS 3	2703	US	8 MAR	4 APR 82	
1967 020B		2704	US	8 MAR	19 APR 70	
1967 020C		2987	US	8 MAR	30 JAN 70	
1967 021A	COSMOS 146	2705	USSR	10 MAR	18 MAR 67	
1967 021B		2709	USSR	10 MAR	19 MAR 67	
1967 021C		2815	USSR	10 MAR	11 MAR 67	
1967 022A	COSMOS 147	2710	USSR	13 MAR	21 MAR 67	
1967 022B		2711	USSR	13 MAR	22 MAR 67	
1967 023A	COSMOS 148	2712	USSR	16 MAR	7 MAY 67	
1967 023B		2713	USSR	16 MAR	14 APR 67	
1967 024A	COSMOS 149	2714	USSR	21 MAR	7 APR 67	
1967 024B		2716	USSR	21 MAR	24 MAR 67	
1967 024C		2724	USSR	21 MAR	26 MAR 67	
1967 024D		2725	USSR	21 MAR	26 MAR 67	
1967 024E		2726	USSR	21 MAR	27 MAR 67	
1967 024F		2727	USSR	21 MAR	27 MAR 67	
1967 024G		2728	USSR	21 MAR	27 MAR 67	
1967 024H		2729	USSR	21 MAR	12 APR 67	
1967 024J		2730	USSR	21 MAR	3 APR 67	
1967 024K		2731	USSR	21 MAR	3 APR 67	
1967 024L		2732	USSR	21 MAR	9 APR 67	
1967 024M		2733	USSR	21 MAR	28 MAR 67	
1967 024N		2734	USSR	21 MAR	28 MAR 67	
1967 024P		2737	USSR	21 MAR	27 MAR 67	
1967 024Q		2738	USSR	21 MAR	27 MAR 67	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 024R		2739	USSR	21 MAR	27 MAR 67	
1967 024S		2748	USSR	21 MAR	31 MAR 67	
1967 024T		2749	USSR	21 MAR	4 APR 67	
1967 025A	COSMOS 150	2715	USSR	22 MAR	30 MAR 67	
1967 025B		2718	USSR	22 MAR	30 MAR 67	
1967 026A		2719	US	23 MAR	7 JUL 67	
1967 026C		11984	US	23 MAR	20 JUN 81	
1967 027A	COSMOS 151	2720	USSR	24 MAR	6 MAY 91	
1967 027B		2721	USSR	24 MAR	3 JUL 88	
1967 027C		2776	USSR	24 MAR	28 NOV 67	
1967 027D		2797	USSR	24 MAR	12 OCT 70	
1967 028A	COSMOS 152	2722	USSR	25 MAR	5 AUG 67	
1967 028B		2723	USSR	25 MAR	22 MAY 67	
1967 029A		2736	US	30 MAR	17 APR 67	
1967 030A	COSMOS 153	2740	USSR	4 APR	12 APR 67	
1967 030B		2742	USSR	4 APR	11 APR 67	
1967 031A	ATS 2	2743	US	6 APR	2 SEP 69	
1967 031B		2744	US	6 APR	29 JUN 68	
1967 032A	COSMOS 154	2745	USSR	8 APR	10 APR 67	
1967 032B		2747	USSR	8 APR	9 APR 67	
1967 032C		2746	USSR	8 APR	19 APR 67	
1967 033A	COSMOS 155	2750	USSR	12 APR	20 APR 67	
1967 033B		2751	USSR	12 APR	16 APR 67	
1967 033C		2752	USSR	12 APR	13 APR 67	
1967 033D		2753	USSR	12 APR	16 APR 67	
1967 034F		6718	US	14 APR	6 MAR 80	
1967 034G		7670	US	14 APR	2 MAY 81	
1967 035A	SURVEYOR 3	2756	US	17 APR	20 APR 67	T*
1967 037A	SOYUZ 1	2759	USSR	23 APR	24 APR 67	AD*
1967 037B		2760	USSR	23 APR	24 APR 67	
1967 038A	SAN MARCO 2	2761	ITALY	26 APR	14 OCT 67	
1967 038B		2771	US	26 APR	29 MAY 67	
1967 039A	COSMOS 156	2762	USSR	27 APR	23 OCT 89	
1967 039B		2763	USSR	27 APR	27 OCT 91	
1967 041A	LUNAR ORBITER 4	2772	US	4 MAY	6 OCT 67	G*
1967 042A	ARIEL 3	2773	UK	5 MAY	14 DEC 70	
1967 042B		2774	US	5 MAY	5 DEC 70	
1967 042C		2859	US	5 MAY	5 MAY 68	
1967 042D		2860	US	5 MAY	9 MAR 68	
1967 043A		2779	US	9 MAY	13 JUL 67	
1967 043C		2824	US	9 MAY	6 JUN 67	
1967 044A	COSMOS 157	2781	USSR	12 MAY	20 MAY 67	
1967 044B		2782	USSR	12 MAY	24 MAY 67	
1967 044C		2783	USSR	12 MAY	13 MAY 67	
1967 044D		2784	USSR	12 MAY	12 MAY 67	
1967 044E		2785	USSR	12 MAY	14 MAY 67	
1967 045C		2823	USSR	15 MAY	21 DEC 91	
1967 045D		3737	USSR	15 MAY	16 NOV 89	
1967 046A	COSMOS 159	2805	USSR	17 MAY	11 NOV 77	
1967 046B		2804	USSR	17 MAY	29 MAY 67	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 046C		2803	USSR	17 MAY	2 JUN 67	
1967 046D		2808	USSR	17 MAY	22 MAY 67	
1967 046E		2809	USSR	17 MAY	22 MAY 67	
1967 046F		2924	USSR	17 MAY	14 APR 78	
1967 047A	COSMOS 160	2805	USSR	17 MAY	18 MAY 67	
1967 047B		2810	USSR	17 MAY	18 MAY 67	
1967 049A	COSMOS 161	2812	USSR	22 MAY	30 MAY 67	
1967 049B		2814	USSR	22 MAY	28 MAY 67	
1967 050A		2813	US	22 MAY	30 MAY 67	
1967 050B		2816	US	22 MAY	30 MAY 67	
1967 051A	EXPLORER 34	2817	US	22 MAY	27 MAY 67	
1967 052A	MOLNIYA 1-5	2822	US	24 MAY	3 MAY 69	
1967 052B		2818	USSR	24 MAY	26 NOV 71	
1967 052C		2819	USSR	24 MAY	5 JUN 67	
1967 052D		2820	USSR	24 MAY	15 JUN 67	
1967 052E		2821	USSR	24 MAY	28 MAY 67	
1967 052F		3224	USSR	24 MAY	28 MAY 67	
1967 052G		5439	USSR	24 MAY	16 DEC 71	
1967 054A	COSMOS 162	2827	USSR	24 MAY	1 SEP 71	
1967 054B		2829	USSR	1 JUN	9 JUN 67	
1967 054C		2830	USSR	1 JUN	4 JUN 67	
1967 055A		2831	USSR	1 JUN	2 JUN 67	
1967 055B		2835	US	4 JUN	12 JUN 67	
1967 056A	COSMOS 163	2832	US	4 JUN	6 JUN 67	
1967 056B		2833	USSR	5 JUN	11 OCT 67	
1967 057A	COSMOS 164	2836	USSR	5 JUN	12 SEP 67	
1967 057B		2837	USSR	8 JUN	14 JUN 67	
1967 057C		2838	USSR	8 JUN	17 JUN 67	
1967 058A	VENERA 4	2840	USSR	9 JUN	9 JUN 67	
1967 058B		2841	USSR	12 JUN	18 OCT 67	
1967 058C		2839	USSR	12 JUN	13 JUN 67	
1967 058D		2844	USSR	12 JUN	13 JUN 67	
1967 059A	COSMOS 165	2842	USSR	12 JUN	13 JUN 67	
1967 059B		2843	USSR	12 JUN	15 JAN 68	
1967 061A	COSMOS 166	2848	USSR	12 JUN	1 NOV 67	
1967 061B		2849	USSR	16 JUN	25 OCT 67	
1967 062A		2850	USSR	16 JUN	11 OCT 67	
1967 062B		2851	US	16 JUN	20 JUL 67	
1967 063A	COSMOS 167	2852	US	16 JUN	22 OCT 68	
1967 063B		2853	USSR	17 JUN	25 JUN 67	
1967 063C		2856	USSR	17 JUN	21 JUN 67	
1967 063D		2854	USSR	17 JUN	26 JUN 67	
1967 063E		2855	USSR	17 JUN	18 JUN 67	
1967 063F		2857	USSR	17 JUN	19 JUN 67	
1967 064A		2858	USSR	17 JUN	26 JUN 67	
1967 067A	COSMOS 168	2869	US	20 JUN	30 JUN 67	
1967 067B		2870	USSR	4 JUL	12 JUL 67	
1967 067C		2871	USSR	4 JUL	8 JUL 67	
1967 068A	SURVEYOR 4	2875	USSR	4 JUL	8 JUL 67	
1967 069A	COSMOS 169	2878	US	14 JUL	17 JUL 67	
1967 069B			USSR	17 JUL	17 JUL 67	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 069B		2879	USSR	17 JUL	18 JUL 67	
1967 069C		2880	USSR	17 JUL	18 JUL 67	
1967 069D		2881	USSR	17 JUL	18 JUL 67	
1967 069E		2882	USSR	17 JUL	18 JUL 67	
1967 0708		2885	US	19 JUL	31 AUG 67	
1967 071A		2890	US	25 JUL	5 JUN 69	
1967 0718		2891	US	25 JUL	21 AUG 67	
1967 071C		2892	US	25 JUL	16 OCT 67	
1967 071D		2978	US	25 JUL	17 OCT 67	
1967 072A		2893	US	27 JUL	22 FEB 72	
1967 072B		2894	US	27 JUL	15 NOV 70	
1967 072C		2897	US	27 JUL	2 MAY 77	
1967 072E		2901	US	27 JUL	22 JUL 80	
1967 073A		2918	US	27 JUL	2 NOV 67	
1967 073B		2895	US	28 JUL	16 AUG 72	
1967 074A		2896	US	28 JUL	15 MAY 74	
1967 074C		2902	USSR	31 JUL	31 JUL 67	
1967 074D		2903	USSR	31 JUL	1 AUG 67	
1967 074E		2904	USSR	31 JUL	1 AUG 67	
1967 075A		2905	USSR	31 JUL	2 AUG 67	
1967 075A		2906	USSR	31 JUL	1 AUG 67	
1967 076A		2907	US	1 AUG	31 JAN 68	
1967 076B		2910	US	7 AUG	1 SEP 67	
1967 077A		2923	US	7 AUG	25 AUG 67	
1967 077B		2911	USSR	8 AUG	8 AUG 67	
1967 077C		2912	USSR	8 AUG	9 AUG 67	
1967 077D		2913	USSR	8 AUG	9 AUG 67	
1967 077E		2915	USSR	8 AUG	8 AUG 67	
1967 078A		2916	USSR	9 AUG	9 AUG 67	
1967 078B		2914	USSR	9 AUG	17 AUG 67	
1967 079A		2917	USSR	9 AUG	13 AUG 67	
1967 081A		2919	US	16 AUG	29 AUG 67	
1967 081B		2921	USSR	24 AUG	17 DEC 67	
1967 082A		2922	USSR	24 AUG	30 OCT 67	
1967 082B		2925	USSR	31 AUG	30 DEC 68	
1967 082C		2926	USSR	31 AUG	19 SEP 67	
1967 082D		2927	USSR	31 AUG	15 SEP 67	
1967 083A		2928	USSR	31 AUG	5 SEP 67	
1967 083A		2935	US	7 SEP	4 OCT 67	
1967 083B		NNA	US	7 SEP	9 SEP 67	
1967 083B		2936	US	7 SEP	19 JAN 68	
1967 084A		2937	US	8 SEP	11 SEP 67	
1967 085A		2939	USSR	11 SEP	19 SEP 67	
1967 085B		2941	USSR	11 SEP	23 SEP 67	
1967 085C		2943	USSR	11 SEP	13 SEP 67	
1967 086A		2942	USSR	12 SEP	3 MAR 68	
1967 086B		2945	USSR	12 SEP	12 DEC 67	
1967 086C		2944	USSR	12 SEP	4 OCT 67	
1967 086D		2956	USSR	12 SEP	21 SEP 67	
1967 086E		2957	USSR	12 SEP	6 APR 68	
	LUNAR ORBITER 5					G*
	COSMOS 171					
	COSMOS 172					
	COSMOS 173					
	COSMOS 174					
	BIOSATELLITE 2 CAPSULE					T*
	SURVEYOR 5 COSMOS 175					
	COSMOS 176					

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 086F		2958	USSR	12 SEP	12 MAR 75	
1967 086G		2959	USSR	12 SEP	2 APR 68	
1967 086H		2960	USSR	12 SEP	3 OCT 67	
1967 086J		2961	USSR	12 SEP	6 OCT 67	
1967 086K		2979	USSR	12 SEP	13 JAN 68	
1967 086L		2983	USSR	12 SEP	4 NOV 67	
1967 085M		2984	USSR	12 SEP	31 OCT 67	
1967 087A		2946	US	15 SEP	4 OCT 67	
1967 088A	COSMOS 177	2947	USSR	16 SEP	24 SEP 67	
1967 089B		2949	USSR	16 SEP	19 SEP 67	
1967 089A	COSMOS 178	2951	USSR	19 SEP	19 SEP 67	
1967 0899		2953	USSR	19 SEP	20 SEP 67	
1967 089C		2954	USSR	19 SEP	19 SEP 67	
1967 089D		2955	USSR	19 SEP	19 SEP 67	
1967 090A		2952	US	19 SEP	30 SEP 67	
1967 091A	COSMOS 179	2962	USSR	22 SEP	22 SEP 67	
1967 091B		2963	USSR	22 SEP	23 SEP 67	
1967 091C		2964	USSR	22 SEP	22 SEP 67	
1967 092E		12554	US	22 SEP	22 SEP 67	
1967 092F		12555	US	25 SEP	20 MAR 89	
1967 092G		17176	US	25 SEP	2 FEB 89	
1967 092H		20009	US	25 SEP	3 OCT 91	
1967 092J		20652	US	25 SEP	12 SEP 91	
1967 093A	COSMOS 180	2966	USSR	25 SEP	26 SEP 91	
1967 093B		2968	USSR	26 SEP	4 OCT 67	
1967 094R		2970	US	26 SEP	5 OCT 67	
1967 094D		2972	US	26 SEP	26 DEC 67	
1967 095A	MOLNIYA 1-6	2973	USSR	28 SEP	27 OCT 67	
1967 095B		2974	USSR	3 OCT	4 MAR 69	
1967 095C		2975	USSR	3 OCT	17 OCT 67	
1967 095D		3225	USSR	3 OCT	21 OCT 67	
1967 097A	COSMOS 181	2981	USSR	3 OCT	10 FEB 69	
1967 097B		2982	USSR	11 OCT	18 OCT 67	
1967 098A	COSMOS 182	2995	USSR	11 OCT	19 OCT 67	
1967 0983		2996	USSR	16 OCT	24 OCT 67	
1967 098C		2999	USSR	16 OCT	24 OCT 67	
1967 099A	COSMOS 183	3001	USSR	18 OCT	24 OCT 67	
1967 099B		3002	USSR	18 OCT	18 OCT 67	
1967 099C		3003	USSR	18 OCT	19 OCT 67	
1967 100A	OSO 4	3000	US	18 OCT	18 OCT 67	
1967 100B		3004	US	18 OCT	15 JUN 82	
1967 101A	MOLNIYA 1-7	3009	USSR	18 OCT	2 MAY 80	
1967 101B		3005	USSR	22 OCT	31 DEC 69	
1967 101C		3006	USSR	22 OCT	7 NOV 67	
1967 101D		3007	USSR	22 OCT	3 NOV 67	
1967 101E		3009	USSR	22 OCT	28 OCT 67	
1967 101F		3226	USSR	22 OCT	27 OCT 67	
1967 102A	COSMOS 184	3010	USSR	22 OCT	16 JAN 70	
1967 102E		3011	USSR	24 OCT	2 APR 89	
1967 103A		3012	US	24 OCT	19 DEC 91	
				25 OCT	5 NOV 67	

INTER- NATIONAL DESIGNATION		NAME		CATALOG NUMBER	DECAYED OBJECTS		LAUNCH		SOURCE		DECAY		NOTES
1967 LAUNCHES (CONT.)													
1967 104A	COSMOS 185	3013	USSR	27 OCT	14 JAN 69								
1967 105A	COSMOS 186	3014	USSR	27 OCT	31 OCT 67								
1967 105B		3015	USSR	27 OCT	29 OCT 67								
1967 105A	COSMOS 187	3016	USSR	28 OCT	28 OCT 67								
1967 106B		3017	USSR	28 OCT	28 OCT 67								
1967 106C		3018	USSR	28 OCT	28 OCT 67								
1967 107A	COSMOS 188	3020	USSR	30 OCT	2 NOV 67								
1967 107B		3022	USSR	30 OCT	2 NOV 67								
1967 108A	COSMOS 189	3021	USSR	30 OCT	8 JUN 78								
1967 108B		3023	USSR	30 OCT	7 MAR 80								
1967 108C		3028	USSR	30 OCT	18 JUN 68								
1967 108D		3041	USSR	30 OCT	23 DEC 67								
1967 108E		3042	USSR	30 OCT	24 JUN 68								
1967 108F		6362	USSR	30 OCT	27 FEB 74								
1967 108G		6696	USSR	30 OCT	27 FEB 74								
1967 108H		6697	USSR	30 OCT	29 MAR 77								
1967 108J		6698	USSR	30 OCT	13 MAY 74								
1967 109K		6699	USSR	30 OCT	29 MAR 74								
1967 109L		6701	USSR	30 OCT	10 FEB 74								
1967 109A		3024	US	2 NOV	2 DEC 67								
1967 109B		3025	US	2 NOV	28 MAR 69								
1967 110A	COSMOS 190	3026	USSR	3 NOV	11 NOV 67								
1967 110B		3027	USSR	3 NOV	9 NOV 67								
1967 111B		3030	US	5 NOV	8 AUG 68								T*
1967 112A	SURVEYOR 6	3031	US	7 NOV	10 NOV 67								B*
1967 113A	APOLLO 4	3032	US	9 NOV	9 NOV 67								
1967 113B		3033	US	9 NOV	9 NOV 67								
1967 115A	COSMOS 191	3043	USSR	21 NOV	2 MAR 68								
1967 115B		3044	USSR	21 NOV	14 JAN 68								
1967 117A	COSMOS 193	3052	USSR	25 NOV	3 DEC 67								
1967 117B		3053	USSR	25 NOV	1 DEC 68								
1967 119A	WRESAT	3054	AUSTAL	29 NOV	10 JAN 63								
1967 119A	COSMOS 194	3055	USSR	3 DEC	11 DEC 67								
1967 119B		3056	USSR	3 DEC	9 DEC 67								
1967 120A	OV3-6	3057	US	5 DEC	9 MAR 69								
1967 120B		3059	US	5 DEC	8 APR 68								
1967 120C		3060	US	5 DEC	18 JUN 68								
1967 120D		3061	US	5 DEC	25 DEC 67								
1967 120E		3062	US	5 DEC	27 MAR 68								
1967 121A		3058	US	5 DEC	16 DEC 67								
1967 122A		3063	US	9 DEC	25 DEC 67								
1967 123A	TATS 1	3067	US	13 DEC	28 APR 68								
1967 123C		3068	US	13 DEC	1 APR 68								
1967 123D		3069	US	13 DEC	12 FEB 68								
1967 123E		3070	US	13 DEC	12 FEB 68								
1967 124A	COSMOS 195	3071	USSR	16 DEC	23 DEC 67								
1967 124B		3072	USSR	16 DEC	23 DEC 67								
1967 124C		3073	USSR	16 DEC	18 DEC 67								
1967 125A	COSMOS 196	3074	USSR	19 DEC	7 JUL 68								
1967 125B		3075	USSR	19 DEC	20 FEB 68								

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1967 LAUNCHES (CONT.)						
1967 125C		3076	USSR	19 DEC	7 JAN 68	
1967 125D		3077	USSR	19 DEC	7 JAN 68	
1967 125E		3078	USSR	19 DEC	7 JAN 68	
1967 126A	COSMOS 197	3079	USSR	26 DEC	30 JAN 68	
1967 126B		3080	USSR	26 DEC	8 JAN 63	
1967 126C		3083	USSR	26 DEC	10 JAN 68	
1967 126D		3084	USSR	26 DEC	5 JAN 68	
1967 126E		3085	USSR	26 DEC	18 JAN 69	
1967 126F		3086	USSR	26 DEC	26 JAN 68	
1967 126G		3087	USSR	26 DEC	3 JAN 68	
1967 126H		3089	USSR	26 DEC	30 DEC 67	
1967 126J		3090	USSR	26 DEC	30 DEC 67	
1967 127B		3082	USSR	27 DEC	21 JAN 68	
1967 127C		3088	USSR	27 DEC	31 DEC 67	
1968 LAUNCHES						
1968 001A	SURVEYOR 7	3091	US	7 JAN	10 JAN 68	T*
1968 003A	COSMOS 199	3099	USSR	16 JAN	1 FEB 68	
1969 003B		3096	USSR	16 JAN	25 JAN 68	
1968 003C		3115	USSR	16 JAN	30 JAN 68	
1969 003D		3117	USSR	16 JAN	3 FEB 68	
1968 004A		3097	US	17 JAN	7 JUL 70	
1968 004B		3101	US	17 JAN	29 MAR 69	
1968 004C		3116	US	17 JAN	22 MAR 68	
1968 005A		3098	US	18 JAN	4 FEB 69	
1968 006A	COSMOS 200	3100	USSR	19 JAN	24 FEB 73	
1969 006B		3102	USSR	19 JAN	4 FEB 72	
1968 006C		3103	USSR	19 JAN	30 SEP 80	
1968 006D		3104	USSR	19 JAN	6 APR 68	
1968 006E		3109	USSR	19 JAN	11 APR 68	
1969 006F		3110	USSR	19 JAN	16 JUN 68	
1968 006G		3111	USSR	19 JAN	15 APR 63	
1968 006H		3112	USSR	19 JAN	16 JUN 68	
1968 007A	LM-1/ASCENT	3106	US	22 JAN	24 JAN 68	
1968 007B	LM-1/DESCENT	3107	US	22 JAN	12 FEB 68	
1968 007C		3108	US	22 JAN	23 JAN 69	
1968 008A		3113	US	24 JAN	27 FEB 68	
1968 008B		3114	US	24 JAN	4 MAR 70	
1968 008C		3120	US	24 JAN	12 FEB 68	
1968 009A	COSMOS 201	3113	USSR	6 FEB	14 FEB 63	
1968 009B		3119	USSR	6 FEB	13 FEB 69	
1969 010A	COSMOS 202	3128	USSR	20 FEB	24 MAR 68	
1968 010B		3130	USSR	20 FEB	4 MAR 69	
1968 011C		3147	USSR	20 FEB	27 MAY 82	
1968 012E		18594	US	2 MAR	19 APR 91	
1969 013B		3135	USSR	2 MAR	7 MAR 68	
1968 013C		3136	USSR	2 MAR	7 MAR 68	
1969 013D		3144	USSR	2 MAR	5 MAR 69	
1969 015A	COSMOS 204	3139	USSR	5 MAR	2 MAR 69	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 015B		3143	USSR	5 MAR	13 OCT 68	
1968 016A	COSMOS 205	3140	USSR	5 MAR	13 MAR 68	
1968 016B		3142	USSR	5 MAR	9 MAR 68	
1968 017A	EXPLORER 37	3141	US	5 MAR	16 NOV 90	
1968 017B		3146	US	5 MAR	25 DEC 80	
1968 017C		3215	US	5 MAR	11 APR 69	
1968 017D		3328	US	5 MAR	8 SEP 91	
1968 017E		5743	US	5 MAR	25 OCT 77	
1968 018A		3148	US	13 MAR	24 MAR 68	
1968 019A	COSMOS 206	3150	USSR	14 MAR	22 APR 89	
1968 020A		3152	US	14 MAR	10 APR 69	
1968 020B		3153	US	14 MAR	3 JAN 70	
1968 021A	COSMOS 207	3154	USSR	16 MAR	24 MAR 68	
1968 021B		3155	USSR	16 MAR	22 MAR 68	
1968 022A	COSMOS 208	3156	USSR	21 MAR	2 APR 68	
1968 022B		3157	USSR	21 MAR	25 MAR 68	
1968 022C		3167	USSR	21 MAR	6 APR 68	
1968 023B		3160	USSR	22 MAR	29 MAR 68	
1968 023C		3161	USSR	22 MAR	25 MAR 68	
1968 023D		3162	USSR	22 MAR	10 APR 68	
1968 023E		3165	USSR	22 MAR	4 MAY 68	
1968 024A	COSMOS 210	3163	USSR	3 APR	11 APR 68	
1968 024B		3169	USSR	3 APR	12 APR 68	
1968 024C		3172	USSR	3 APR	5 APR 68	
1968 025A	APOLLO 6	3170	US	4 APR	4 APR 68	
1968 025B		3171	US	4 APR	25 APR 68	
1968 025C		3185	US	4 APR	28 APR 68	
1968 025D		3186	US	4 APR	5 MAY 68	
1968 025E		3187	US	4 APR	3 SEP 68	
1968 025F		3188	US	4 APR	29 APR 68	
1968 025G		3189	US	4 APR	20 APR 68	
1968 025H		3190	US	4 APR	17 APR 68	
1968 025J		3191	US	4 APR	17 APR 68	
1968 025K		3192	US	4 APR	17 APR 68	
1968 025L		3195	US	4 APR	1 MAY 68	
1968 025M		3196	US	4 APR	22 APR 68	
1968 025N		3197	US	4 APR	16 APR 68	
1968 025P		3198	US	4 APR	17 APR 68	
1968 025Q		3200	US	4 APR	17 APR 68	
1968 025R		3201	US	4 APR	16 APR 68	
1968 025S		3202	US	4 APR	17 APR 68	
1968 027B		3179	USSR	7 APR	9 APR 68	
1968 027C		3180	USSR	7 APR	9 APR 68	
1968 028A	COSMOS 211	3181	USSR	9 APR	10 NOV 69	
1968 028B		3182	USSR	9 APR	17 AUG 68	
1968 029A	COSMOS 212	3183	USSR	14 APR	19 APR 68	
1968 029B		3184	USSR	14 APR	16 APR 68	
1968 030A	COSMOS 213	3193	USSR	15 APR	20 APR 68	
1968 030B		3194	USSR	15 APR	19 APR 68	
1968 031A		3199	US	17 APR	29 APR 68	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 032A	COSMOS 214	3203	USSR	18 APR	26 APR 68	
1968 032B		3204	USSR	18 APR	29 APR 68	
1968 033A	COSMOS 215	3205	USSR	18 APR	30 JUN 68	
1968 033B		3206	USSR	18 APR	19 MAY 68	
1968 034A	COSMOS 216	3207	USSR	20 APR	28 APR 68	
1968 034B		3208	USSR	20 APR	23 APR 68	
1968 035A	MOLNIYA 1-8	3209	USSR	21 APR	29 JAN 74	
1968 035B		3211	USSR	21 APR	11 MAY 68	
1968 035C		3210	USSR	21 APR	29 MAY 68	
1968 035D		3514	USSR	21 APR	9 JUL 74	
1968 036A	COSMOS 217	3216	USSR	24 APR	26 APR 68	
1968 037A	COSMOS 218	3217	USSR	25 APR	25 APR 68	
1968 037B		3219	USSR	25 APR	25 APR 68	
1968 037C		3218	USSR	25 APR	25 APR 68	
1968 038A	COSMOS 219	3220	USSR	26 APR	2 MAR 69	
1968 038B		3221	USSR	26 APR	24 FEB 69	
1968 038C		3227	USSR	26 APR	3 JUN 68	
1968 039A		3228	US	1 MAY	15 MAY 68	
1968 039B		3232	US	1 MAY	20 MAY 68	
1968 040C		3231	USSR	7 MAY	9 SEP 90	
1968 041A	IRIS	3233	ESRO	17 MAY	8 MAY 71	
1968 041B		3234	US	17 MAY	31 MAR 70	
1968 041C		3265	US	17 MAY	4 NOV 68	
1968 043A	COSMOS 221	3269	USSR	24 MAY	31 AUG 69	
1968 043B		3270	USSR	24 MAY	13 APR 69	
1968 044A	COSMOS 222	3272	USSR	30 MAY	11 OCT 68	
1968 044B		3273	USSR	30 MAY	13 AUG 68	
1968 045A	COSMOS 223	3274	USSR	1 JUN	9 JUN 68	
1968 045B		3275	USSR	1 JUN	9 JUN 68	
1968 046A	COSMOS 224	3276	USSR	4 JUN	12 JUN 68	
1968 046B		3277	USSR	4 JUN	7 JUN 68	
1968 047A		3278	US	5 JUN	17 JUN 68	
1968 048A	COSMOS 225	3279	USSR	11 JUN	2 NOV 69	
1968 048B		3280	USSR	11 JUN	15 AUG 68	
1968 048C		3281	USSR	11 JUN	19 JUN 68	
1968 048D		3293	USSR	11 JUN	21 JUN 68	
1968 049A	COSMOS 226	3282	USSR	12 JUN	18 OCT 83	
1968 049B		3283	USSR	12 JUN	26 JAN 91	
1968 051A	COSMOS 227	3294	USSR	18 JUN	26 JUN 68	
1968 051B		3295	USSR	18 JUN	21 JUN 68	
1968 052A		3296	US	20 JUN	16 JUL 68	
1968 052B		3297	US	20 JUN	11 JAN 70	
1968 053A	COSMOS 228	3298	USSR	21 JUN	3 JUL 68	
1968 053B		3300	USSR	21 JUN	24 JUN 68	
1968 053C		3299	USSR	21 JUN	23 JUN 68	
1968 053D		3301	USSR	21 JUN	23 JUN 68	
1968 053E		3302	USSR	21 JUN	23 JUN 68	
1968 053F		3303	USSR	21 JUN	23 JUN 68	
1968 053G		3306	USSR	21 JUN	7 JUL 68	
1968 054A	COSMOS 229	3304	USSR	26 JUN	4 JUL 68	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 054B		3305	USSR	26 JUN	4 JUL 68	
1968 056A	COSMOS 230	3308	USSR	5 JUL	2 NOV 68	
1968 056B		3309	USSR	5 JUL	16 OCT 68	
1968 057A	MOLNIYA 1-9	3310	USSR	6 JUL	15 MAY 71	
1968 057B		3311	USSR	6 JUL	9 AUG 68	
1968 057C		3312	USSR	6 JUL	22 AUG 68	
1968 057D		3313	USSR	6 JUL	8 JUL 68	
1968 057E		3314	USSR	6 JUL	18 JUL 68	
1968 057F		3515	USSR	6 JUL	2 SEP 70	
1968 053A	COSMOS 231	3316	USSR	10 JUL	18 JUL 68	
1968 053B		3317	USSR	10 JUL	20 JUL 68	
1968 059A	OVI-15	3318	US	11 JUL	6 NOV 68	
1968 059B	OVI-16	3319	US	11 JUL	19 AUG 68	
1968 059C		3320	US	11 JUL	16 AUG 68	
1968 059D		3321	US	11 JUL	16 JUL 68	
1968 060A	COSMOS 232	3322	USSR	16 JUL	24 JUL 68	
1968 060B		3323	USSR	16 JUL	26 JUL 68	
1968 061A	COSMOS 233	3326	USSR	16 JUL	7 FEB 69	
1968 061B		3327	USSR	18 JUL	1 JAN 69	
1968 062A	COSMOS 234	3332	USSR	30 JUL	5 AUG 68	
1968 062B		3333	USSR	30 JUL	7 AUG 68	
1968 064A		3335	US	6 AUG	16 AUG 68	
1968 065A		3336	US	7 AUG	27 AUG 68	
1968 066A	EXPLORER 39	3337	US	8 AUG	22 JUN 81	
1968 067A	COSMOS 235	3339	USSR	9 AUG	17 AUG 68	
1968 067B		3340	USSR	9 AUG	14 AUG 68	
1968 068A	ATS 4	3344	US	10 AUG	17 OCT 68	
1968 070A	COSMOS 236	3347	USSR	27 AUG	4 MAR 90	
1968 070B		3349	USSR	27 AUG	8 OCT 82	
1968 071A	COSMOS 237	3348	USSR	27 AUG	4 SEP 68	
1968 071B		3350	USSR	27 AUG	4 SEP 68	
1968 072A	COSMOS 238	3351	USSR	28 AUG	1 SEP 68	
1968 072B		3352	USSR	28 AUG	30 AUG 68	
1968 073A	COSMOS 239	3353	USSR	5 SEP	13 SEP 68	
1968 073B		3354	USSR	5 SEP	9 SEP 68	
1968 074A		3375	US	10 SEP	25 SEP 68	
1968 075A	COSMOS 240	3388	USSR	14 SEP	21 SEP 68	
1968 075B		3389	USSR	14 SEP	17 SEP 68	
1968 076A	ZOND 5	3394	USSR	14 SEP	21 SEP 68	
1968 076B		3395	USSR	14 SEP	16 SEP 68	
1968 076C		3396	USSR	14 SEP	18 SEP 68	
1968 076D		3397	USSR	14 SEP	16 SEP 68	
1968 077A	COSMOS 241	3398	USSR	16 SEP	24 SEP 68	
1968 077B		3399	USSR	16 SEP	22 SEP 68	
1968 078A		3408	US	18 SEP	8 OCT 68	
1968 078B		3409	US	18 SEP	28 SEP 69	
1968 079A	COSMOS 242	3414	USSR	20 SEP	13 NOV 68	
1968 079B		3415	USSR	20 SEP	22 OCT 68	
1968 080A	COSMOS 243	3418	USSR	23 SEP	4 OCT 68	
1968 080B		3419	USSR	23 SEP	29 SEP 68	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 080C		3452	USSR	23 SEP	12 OCT 68	
1968 081B	ERS 28	3429	US	26 SEP	15 FEB 71	
1968 081F		5999	US	26 SEP	14 MAR 75	
1968 082A	COSMOS 244	3449	USSR	2 OCT	3 OCT 68	
1968 082B		3451	USSR	2 OCT	2 OCT 68	
1968 082C		3450	USSR	2 OCT	2 OCT 68	
1968 083A	COSMOS 245	3457	USSR	3 OCT	15 JAN 69	
1968 083B		3458	USSR	3 OCT	16 NOV 68	
1968 084A	ESRO 1	3459	ESRO	3 OCT	26 JUN 70	
1968 084B		3460	US	3 OCT	13 AUG 69	
1968 084C		3479	US	3 OCT	12 APR 69	
1968 084D		3916	US	3 OCT	9 MAY 69	
1968 085A	MOLNIYA 1-10	3469	USSR	5 OCT	16 JUL 76	
1968 085B		3470	USSR	5 OCT	30 OCT 68	
1968 085C		3471	USSR	5 OCT	4 NOV 68	
1968 085D		3513	USSR	5 OCT	7 MAY 75	
1968 086A		3472	US	5 OCT	26 MAR 71	
1968 087A	COSMOS 246	3473	USSR	7 OCT	12 OCT 68	
1968 087B		3474	USSR	7 OCT	8 OCT 68	
1968 088A	COSMOS 247	3484	USSR	11 OCT	19 OCT 68	
1968 088B		3485	USSR	11 OCT	18 OCT 68	
1968 089A	APOLLO 7	3486	US	11 OCT	22 OCT 68	
1968 089B		3487	US	11 OCT	18 OCT 68	
1968 090A	COSMOS 248	3503	USSR	19 OCT	26 FEB 80	
1968 090B		3571	USSR	19 OCT	28 DEC 68	
1968 090C		3572	USSR	19 OCT	20 FEB 69	
1968 090D		3573	USSR	19 OCT	6 FEB 69	
1968 090E		3580	USSR	19 OCT	13 DEC 68	
1968 091B		3505	USSR	20 OCT	21 OCT 68	
1968 091G		3518	USSR	20 OCT	13 NOV 79	
1968 091H		3519	USSR	20 OCT	6 MAR 82	
1968 091J		3520	USSR	20 OCT	29 MAY 81	
1968 091K		3521	USSR	20 OCT	6 APR 74	
1968 091N		3525	USSR	20 OCT	19 OCT 81	
1968 091P		3581	USSR	20 OCT	7 SEP 82	
1968 091Q		3582	USSR	20 OCT	28 MAR 80	
1968 091U		3586	USSR	20 OCT	31 MAR 70	
1968 091W		3588	USSR	20 OCT	5 MAY 69	
1968 091AC		3677	USSR	20 OCT	29 MAY 80	
1968 091AD		3678	USSR	20 OCT	7 JUN 81	
1968 091AF		3680	USSR	20 OCT	9 JUN 81	
1968 091AH		3682	USSR	20 OCT	14 DEC 77	
1968 091AK		3693	USSR	20 OCT	5 DEC 76	
1968 091AM		3697	USSR	20 OCT	3 JAN 73	
1968 091AP		3702	USSR	20 OCT	5 DEC 76	
1968 091AQ		3706	USSR	20 OCT	5 JUL 70	
1968 091AS		3754	USSR	20 OCT	21 MAY 75	
1968 091AW		3789	USSR	20 OCT	2 JUL 75	
1968 091AZ		3792	USSR	20 OCT	13 APR 81	
1968 091BC		3795	USSR	20 OCT	21 MAY 80	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 091BD		3796	USSR	20 OCT	23 JAN 77	
1968 091BF		3872	USSR	20 OCT	15 FEB 70	
1968 091BJ		3875	USSR	20 OCT	27 MAY 81	
1968 091BK		3876	USSR	20 OCT	15 JUN 75	
1968 091BM		3909	USSR	20 OCT	16 MAR 75	
1968 091BN		3910	USSR	20 OCT	18 MAY 82	
1968 091BS		3934	USSR	20 OCT	24 AUG 77	
1968 091BT		3959	USSR	20 OCT	29 OCT 79	
1968 091BU		3960	USSR	20 OCT	26 NOV 78	
1968 091BV		3961	USSR	20 OCT	12 NOV 82	
1968 091BX		4002	USSR	20 OCT	3 AUG 70	
1968 091BZ		4500	USSR	20 OCT	12 DEC 70	
1968 091CC		5717	USSR	20 OCT	14 MAY 82	
1968 091CE		6045	USSR	20 OCT	6 MAR 81	
1968 091CK		6764	USSR	20 OCT	27 OCT 79	
1968 091CR		14415	USSR	20 OCT	12 APR 86	
1968 091CU		14429	USSR	25 OCT	12 DEC 89	
SOYUZ 2						
1968 093A		3511	USSR	25 OCT	28 OCT 68	
1968 093B		3512	USSR	25 OCT	27 OCT 68	
1968 094A		3516	USSR	26 OCT	30 OCT 68	
1968 094B		3517	USSR	26 OCT	28 OCT 68	
1968 095A		3526	USSR	30 OCT	15 FEB 78	
1968 095B		3527	USSR	30 OCT	8 NOV 78	
1968 095C		3639	USSR	30 OCT	8 APR 69	
1968 095D		3660	USSR	30 OCT	5 MAY 69	
1968 095E		3661	USSR	30 OCT	17 APR 69	
1968 095F		3662	USSR	30 OCT	26 MAR 69	
1968 095G		8780	USSR	30 OCT	17 OCT 76	
1968 096A		3528	USSR	31 OCT	18 NOV 68	
1968 096B		3529	USSR	31 OCT	2 NOV 68	
1968 096C		3540	USSR	31 OCT	16 NOV 68	
1968 096D		3541	USSR	31 OCT	13 NOV 68	
1968 097J		3556	USSR	1 NOV	20 NOV 82	
1968 097T		3567	USSR	1 NOV	2 MAR 82	
1968 097U		3568	USSR	1 NOV	19 APR 79	
1968 097W		3570	USSR	1 NOV	10 APR 82	
1968 097X		3593	USSR	1 NOV	9 OCT 81	
1968 097Y		3600	USSR	1 NOV	3 NOV 81	
1968 097Z		3601	USSR	1 NOV	30 JUN 80	
1968 097AB		3684	USSR	1 NOV	28 MAR 82	
1968 097AF		3688	USSR	1 NOV	15 SEP 78	
1968 097AG		3689	USSR	1 NOV	13 JUL 74	
1968 097AJ		3694	USSR	1 NOV	28 OCT 80	
1968 097AK		3696	USSR	1 NOV	10 MAR 70	
1968 097AM		3704	USSR	1 NOV	9 SEP 74	
1968 097AN		3711	USSR	1 NOV	22 APR 69	
1968 097AP		3712	USSR	1 NOV	26 FEB 73	
1968 097AR		3714	USSR	1 NOV	20 DEC 80	
1968 097AS		3715	USSR	1 NOV	14 DEC 76	
1968 097AT		3716	USSR	1 NOV	12 SEP 81	
COSMOS 250						
COSMOS 251						

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 097AY		3786	USSR	1 NOV	21 DEC 79	
1968 097AZ		3787	USSR	1 NOV	12 NOV 82	
1968 097BB		3813	USSR	1 NOV	3 NOV 81	
1968 097BD		3815	USSR	1 NOV	4 OCT 69	
1968 097BE		3816	USSR	1 NOV	25 JUN 82	
1968 097BF		3817	USSR	1 NOV	7 DEC 82	
1968 097BH		3896	USSR	1 NOV	12 NOV 82	
1968 097BJ		3897	USSR	1 NOV	2 JAN 82	
1968 097BP		3902	USSR	1 NOV	2 DEC 81	
1968 097BQ		3903	USSR	1 NOV	12 NOV 82	
1968 097BR		3904	USSR	1 NOV	24 OCT 79	
1968 097BT		3946	USSR	1 NOV	27 MAY 69	
1968 097BU		3953	USSR	1 NOV	13 APR 81	
1968 097BV		3979	USSR	1 NOV	2 JUL 71	
1968 097BW		3997	USSR	1 NOV	22 NOV 82	
1968 097BX		4010	USSR	1 NOV	10 SEP 69	
1968 097BY		4011	USSR	1 NOV	12 NOV 82	
1968 097BZ		4012	USSR	1 NOV	9 MAR 79	
1968 097CA		4013	USSR	1 NOV	16 OCT 80	
1968 097CD		4030	USSR	1 NOV	2 FEB 82	
1968 097CE		4031	USSR	1 NOV	30 JUL 82	
1968 097CG		5030	USSR	1 NOV	26 FEB 78	
1968 097CK		5334	USSR	1 NOV	23 FEB 72	
1968 097CM		5418	USSR	1 NOV	19 NOV 82	
1968 097CP		5514	USSR	1 NOV	5 JAN 81	
1968 097CQ		5515	USSR	1 NOV	6 FEB 78	
1968 097CR		5516	USSR	1 NOV	10 OCT 79	
1968 097CS		5517	USSR	1 NOV	8 OCT 82	
1968 097CT		5518	USSR	1 NOV	20 NOV 76	
1968 097CU		5592	USSR	1 NOV	22 JUL 79	
1968 097CV		5594	USSR	1 NOV	25 NOV 78	
1968 097CX		5631	USSR	1 NOV	15 OCT 81	
1968 097CY		5632	USSR	1 NOV	9 MAR 73	
1968 097CZ		5749	USSR	1 NOV	12 OCT 76	
1968 097DA		5788	USSR	1 NOV	5 SEP 81	
1968 097DC		5790	USSR	1 NOV	18 AUG 81	
1968 097DE		5827	USSR	1 NOV	19 NOV 82	
1968 097DF		5828	USSR	1 NOV	19 NOV 82	
1968 097DG		5829	USSR	1 NOV	31 MAR 78	
1968 097DH		5830	USSR	1 NOV	21 FEB 79	
1968 097DJ		5870	USSR	1 NOV	20 JUN 81	
1968 097DM		5873	USSR	1 NOV	16 JUN 79	
1968 097DN		5874	USSR	1 NOV	25 OCT 79	
1968 097DP		5875	USSR	1 NOV	9 MAY 81	
1968 097DQ		5889	USSR	1 NOV	19 NOV 82	
1968 097DR		5890	USSR	1 NOV	1 MAR 77	
1968 097DS		5891	USSR	1 NOV	31 JAN 77	
1968 097DT		5966	USSR	1 NOV	3 JAN 77	
1968 097DU		6175	USSR	1 NOV	27 SEP 75	
1968 098A		3531	US	3 NOV	23 NOV 68	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1963 099A		3532	US	6 NOV	20 NOV 68	
1968 100B	TETR 2	3534	US	8 NOV	19 SEP 79	
1968 100C		3546	US	8 NOV	6 OCT 71	
1968 100D		3547	US	8 NOV	13 APR 78	
1963 100E		3548	US	8 NOV	6 JAN 72	
1969 101A	ZOND 6	3535	USSR	10 NOV	17 NOV 68	C*
1963 101B		3536	USSR	10 NOV	12 NOV 68	
1969 101C		3537	USSR	10 NOV	13 NOV 69	
1968 101D		3538	USSR	10 NOV	13 NOV 68	
1968 101E		3539	USSR	10 NOV	13 NOV 68	
1964 102A	COSMOS 253	3542	USSR	13 NOV	18 NOV 68	
1968 102B		3543	USSR	13 NOV	20 NOV 68	
1969 103A	PROTON 4	3544	USSR	16 NOV	24 JUL 69	
1969 103B		3545	USSR	16 NOV	25 JAN 69	
1968 104A	COSMOS 254	3562	USSR	21 NOV	29 NOV 68	
1968 104B		3563	USSR	21 NOV	27 NOV 68	
1968 105A	COSMOS 255	3574	USSR	29 NOV	7 DEC 68	
1963 105B		3575	USSR	29 NOV	5 DEC 68	
1963 107A	COSMOS 257	3578	USSR	3 DEC	5 MAR 69	
1968 107B		3579	USSR	3 DEC	16 JAN 69	
1968 108A		3594	US	4 DEC	12 DEC 68	
1963 109A	HEOS-A1	3595	ESRO	5 DEC	28 OCT 75	
1969 109B		3596	US	5 DEC	27 DEC 68	
1963 111A	COSMOS 258	3602	USSR	10 DEC	18 DEC 68	
1963 111B		3603	USSR	10 DEC	17 DEC 68	
1969 112A		3604	US	12 DEC	28 DEC 68	
1963 113A	COSMOS 259	3612	USSR	14 DEC	5 MAY 69	
1969 113B		3613	USSR	14 DEC	10 MAY 69	
1968 113C		3614	USSR	14 DEC	13 MAY 69	
1968 115A	COSMOS 260	3619	USSR	16 DEC	9 JUL 73	
1969 115B		3620	USSR	16 DEC	6 FEB 69	
1963 115C		3521	USSR	16 DEC	18 JAN 69	
1969 115D		3622	USSR	16 DEC	21 SEP 73	
1963 116B		5978	US	19 DEC	26 JUN 73	
1963 117A	COSMOS 261	3624	USSR	19 DEC	12 FEB 69	
1963 117B		3625	USSR	19 DEC	7 JAN 69	AF*
1963 117C		3628	USSR	19 DEC	6 JAN 69	
1964 117D		3631	USSR	19 DEC	1 FEB 69	
1963 117E		3632	USSR	19 DEC	22 JAN 69	
1968 117F		3633	USSR	19 DEC	17 FEB 69	
1968 117G		3634	USSR	19 DEC	18 AUG 69	
1963 117H		3635	USSR	19 DEC	15 MAR 69	
1969 117J		3636	USSR	19 DEC	1 FEB 69	
1968 117K		3637	USSR	19 DEC	22 JAN 69	
1968 117L		3638	USSR	19 DEC	13 FEB 69	
1963 117M		3639	USSR	19 DEC	2 MAY 69	
1963 117N		3640	USSR	19 DEC	10 FEB 69	
1968 117P		3641	USSR	19 DEC	7 MAY 69	
1963 117Q		3644	USSR	19 DEC	6 MAR 69	
1963 117R		3645	USSR	19 DEC	6 MAR 69	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1968 LAUNCHES (CONT.)						
1968 117S		3647	USSR	19 DEC	19 MAR 69	
1968 117T		3698	USSR	19 DEC	20 MAR 69	
1968 117U		3700	USSR	19 DEC	14 MAR 69	
1968 117V		3703	USSR	19 DEC	17 FEB 69	
1968 117W		3705	USSR	19 DEC	15 FEB 69	
1968 117X		3709	USSR	19 DEC	21 FEB 69	
1968 117Y		3710	USSR	19 DEC	4 MAR 69	
1968 117Z		3768	USSR	19 DEC	4 MAR 69	
1968 118A	APOLLO 8	3625	US	21 DEC	27 DEC 68	AG*
1968 119A	COSMOS 262	3629	USSR	26 DEC	18 JUL 69	
1968 119B		3630	USSR	26 DEC	30 APR 69	
1969 LAUNCHES						
1969 001A	VENERA 5	3642	USSR	5 JAN	16 MAY 69	N*
1969 001B		3643	USSR	5 JAN	6 JAN 69	
1969 001C		3646	USSR	5 JAN	7 JAN 69	
1969 002A	VENERA 6	3648	USSR	10 JAN	17 MAY 69	N*
1969 002B		3649	USSR	10 JAN	11 JAN 69	
1969 002C		3650	USSR	10 JAN	13 JAN 69	
1969 003A	COSMOS 263	3651	USSR	12 JAN	20 JAN 69	
1969 003B		3652	USSR	12 JAN	18 JAN 69	
1969 003C		3653	USSR	12 JAN	19 JAN 69	
1969 004A	SOYUZ 4	3654	USSR	14 JAN	17 JAN 69	
1969 004B		3655	USSR	14 JAN	15 JAN 69	E*
1969 005A	SOYUZ 5	3656	USSR	15 JAN	18 JAN 69	E*
1969 005B		3657	USSR	15 JAN	17 JAN 69	
1969 005C		3658	USSR	15 JAN	18 JAN 69	
1969 006A	OSO 5	3663	US	22 JAN	2 APR 84	
1969 006B		3664	US	22 JAN	8 DEC 79	
1969 007A		3665	US	22 JAN	3 FEB 69	
1969 007B		3666	US	22 JAN	26 JAN 69	
1969 008A	COSMOS 264	3667	USSR	23 JAN	5 FEB 69	
1969 008C		3668	USSR	23 JAN	30 JAN 69	
1969 010A		3671	USSR	23 JAN	13 FEB 69	
1969 012A	COSMOS 265	3672	US	5 FEB	24 FEB 69	
1969 012B		3675	USSR	7 FEB	1 MAY 69	
1969 015A	COSMOS 266	3676	USSR	7 FEB	17 MAR 69	
1969 015B		3761	USSR	25 FEB	5 MAR 69	
1969 015C		3762	USSR	25 FEB	4 MAR 69	
1969 017A	COSMOS 267	3763	USSR	25 FEB	26 FEB 69	
1969 017B		3765	USSR	26 FEB	6 MAR 69	
1969 017C		3766	USSR	26 FEB	5 MAR 69	
1969 018A	APOLLO 9	3769	US	3 MAR	13 MAR 69	F*
1969 018C	LM/ASCENT	3771	US	3 MAR	23 OCT 81	
1969 018D	LM/DESCENT	3780	US	3 MAR	22 MAR 69	
1969 019A		3772	US	4 MAR	18 MAR 69	
1969 020A	COSMOS 268	3773	USSR	5 MAR	9 MAY 70	
1969 020B		3774	USSR	5 MAR	11 FEB 70	
1969 021A	COSMOS 269	3775	USSR	5 MAR	21 OCT 78	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 021B		3776	USSR	5 MAR	20 JUL 78	AH*
1969 021C		3779	USSR	5 MAR	24 APR 69	
1969 021D		3781	USSR	5 MAR	7 MAY 69	
1969 021E		3782	USSR	5 MAR	2 APR 70	
1969 021F		3798	USSR	5 MAR	2 MAY 70	
1969 021G		3799	USSR	5 MAR	26 NOV 69	
1969 021H		3800	USSR	5 MAR	8 SEP 69	
1969 021J		3801	USSR	5 MAR	4 APR 70	
1969 021K		3802	USSR	5 MAR	2 MAY 70	
1969 021L		3803	USSR	5 MAR	11 JUN 69	
1969 021M		3804	USSR	5 MAR	19 MAR 69	
1969 021N		3805	USSR	5 MAR	4 SEP 69	
1969 021P		3806	USSR	5 MAR	29 JUN 69	
1969 021Q		3820	USSR	5 MAR	7 APR 69	
1969 021R		3821	USSR	5 MAR	17 MAY 69	
1969 021S		3822	USSR	5 MAR	9 APR 69	
1969 021T		3844	USSR	5 MAR	19 JUL 83	
1969 021U		3924	USSR	5 MAR	30 DEC 69	
1969 021V		3937	USSR	5 MAR	13 AUG 69	
1969 021W		3976	USSR	5 MAR	16 MAY 70	
1969 021X		3977	USSR	5 MAR	18 AUG 69	
1969 021Y		5425	USSR	5 MAR	20 DEC 72	
1969 022A	COSMOS 270	3777	USSR	6 MAR	14 MAR 69	
1969 022B		3778	USSR	6 MAR	12 MAR 69	
1969 023A	COSMOS 271	3807	USSR	15 MAR	23 MAR 69	
1969 023B		3808	USSR	15 MAR	22 MAR 69	
1969 025A	OV1-17	3823	US	18 MAR	5 MAR 70	
1969 025B	OV1-18	3824	US	18 MAR	27 AUG 72	
1969 025D	OV1-17A	3826	US	18 MAR	24 MAR 69	
1969 025F		3828	US	18 MAR	16 MAR 79	
1969 025G		4121	US	18 MAR	6 NOV 69	
1969 026A		3829	US	19 MAR	24 MAR 69	
1969 026B		3830	US	19 MAR	6 DEC 71	
1969 027A	COSMOS 273	3831	USSR	22 MAR	30 MAR 69	
1969 027B		3832	USSR	22 MAR	28 MAR 69	
1969 028A	COSMOS 274	3833	USSR	24 MAR	1 APR 69	
1969 028B		3834	USSR	24 MAR	29 MAR 69	
1969 029B		3836	USSR	25 MAR	10 JUN 89	
1969 029C		3849	USSR	26 MAR	5 NOV 80	
1969 029D		3850	USSR	26 MAR	8 SEP 69	
1969 029E		3851	USSR	26 MAR	12 NOV 86	
1969 029F		3852	USSR	26 MAR	13 JUL 70	
1969 029G		3853	USSR	26 MAR	7 OCT 70	
1969 029H		3858	USSR	26 MAR	18 MAY 70	
1969 029J		3859	USSR	26 MAR	28 NOV 79	
1969 029K		3860	USSR	26 MAR	26 DEC 71	
1969 029L		3861	USSR	26 MAR	4 JUN 74	
1969 029M		3862	USSR	26 MAR	13 DEC 70	
1969 029N		3863	USSR	26 MAR	18 JUN 72	
1969 029P		3864	USSR	26 MAR	23 FEB 70	

AK*

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 029Q		3865	USSR	26 MAR	25 APR 73	
1969 029R		3866	USSR	26 MAR	1 JUN 69	
1969 029S		3867	USSR	26 MAR	13 FEB 71	
1969 029T		3869	USSR	26 MAR	4 FEB 70	
1969 029U		3869	USSR	26 MAR	1 JUN 71	
1969 029V		3870	USSR	26 MAR	26 AUG 70	
1969 029W		3871	USSR	26 MAR	3 JUN 82	
1969 029X		3877	USSR	26 MAR	23 NOV 79	
1969 029Y		3878	USSR	26 MAR	23 JUN 69	
1969 029Z		3879	USSR	26 MAR	14 OCT 87	
1969 029AA		3880	USSR	26 MAR	21 AUG 69	
1969 029AB		3881	USSR	26 MAR	6 JAN 72	
1969 029AC		3882	USSR	26 MAR	19 NOV 77	
1969 029AD		3905	USSR	26 MAR	12 SEP 69	
1969 029AF		3913	USSR	29 MAR	7 MAR 70	
1969 029AF		3917	USSR	26 MAR	1 JUL 69	
1969 029AG		3918	USSR	26 MAR	10 MAY 69	
1969 029AH		3921	USSR	26 MAR	19 JUL 71	
1969 029AJ		3933	USSR	26 MAR	6 AUG 70	
1969 029AK		3966	USSR	26 MAR	10 SEP 69	
1969 029AL		3967	USSR	26 MAR	26 JUN 69	
1969 029AM		4289	USSR	26 MAR	26 DEC 70	
1969 029AN		9279	USSR	26 MAR	16 JUN 79	
1969 029AP		9692	USSR	26 MAR	18 JUL 78	
1969 031A	COSMOS 275	3845	USSR	28 MAR	7 FEB 70	
1969 031B		3847	USSR	28 MAR	16 SEP 69	
1969 032A	COSMOS 276	3854	USSR	4 APR	11 APR 69	
1969 032B		3856	USSR	4 APR	14 APR 69	
1969 033A	COSMOS 277	3855	USSR	4 APR	6 JUL 69	
1969 033B		3857	USSR	4 APR	18 MAY 69	
1969 034A	COSMOS 278	3883	USSR	9 APR	17 APR 69	
1969 034B		3884	USSR	9 APR	16 APR 69	
1969 035A	MOLNIYA 1-11	3885	USSR	11 APR	17 APR 74	
1969 035B		3887	USSR	11 APR	1 MAY 69	
1969 035C		3886	USSR	11 APR	1 JUL 74	
1969 035D		3888	USSR	11 APR	5 MAY 69	
1969 038B	COSMOS 279	3893	USSR	15 APR	23 APR 69	
1969 039A		3894	USSR	15 APR	18 APR 69	
1969 040A	COSMOS 280	3895	US	15 APR	30 APR 69	
1969 040B		3906	USSR	23 APR	6 MAY 69	
1969 040C		3907	USSR	23 APR	26 APR 69	
1969 040D		3919	USSR	23 APR	8 MAY 69	
1969 040D		3920	USSR	23 APR	8 MAY 69	
1969 041A		3914	US	2 MAY	23 MAY 69	
1969 041B		3915	US	2 MAY	16 FEB 70	
1969 041C		3942	US	2 MAY	19 MAY 69	
1969 042A	COSMOS 281	3939	USSR	13 MAY	21 MAY 69	
1969 042B		3940	USSR	13 MAY	17 MAY 69	
1969 043A	APOLLO 10	3941	US	18 MAY	26 MAY 69	
1969 044A	COSMOS 282	3944	USSR	20 MAY	28 MAY 69	

AG*

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 0448		3945	USSR	20 MAY	28 MAY 69	
1969 0450		5976	US	22 MAY	7 MAR 77	
1969 047A	COSMOS 283	3957	USSR	27 MAY	10 DEC 69	
1969 047B		3958	USSR	27 MAY	1 OCT 69	
1969 048A	COSMOS 284	3971	USSR	29 MAY	6 JUN 69	
1969 048B		3972	USSR	29 MAY	4 JUN 69	
1969 048C		3973	USSR	29 MAY	30 MAY 69	
1969 049A	COSMOS 285	3983	USSR	3 JUN	7 OCT 69	
1969 049B		3985	USSR	3 JUN	5 AUG 69	
1969 050A		3984	US	3 JUN	14 JUN 69	
1969 051A	OGO 6	3986	US	5 JUN	12 OCT 79	
1969 051B		3987	US	5 JUN	12 JUN 80	
1969 052A	COSMOS 286	3988	USSR	15 JUN	23 JUN 69	
1969 052E		3989	USSR	15 JUN	23 JUN 69	
1969 053A	EXPLORER 41	3990	US	21 JUN	23 DEC 72	
1969 054A	COSMOS 287	3991	USSR	24 JUN	2 JUL 69	
1969 054B		3992	USSR	24 JUN	27 JUN 69	
1969 055A	COSMOS 288	3994	USSR	27 JUN	5 JUL 69	
1969 055B		3995	USSR	27 JUN	2 JUL 69	
1969 056A	BIOSATELLITE 3	4000	US	29 JUN	20 JAN 70	B*
1969 056A	CAPSULE	NNA	US	29 JUN	7 JUL 69	
1969 056B		4001	US	29 JUN	1 DEC 69	
1969 056C		4027	US	29 JUN	13 JUL 69	
1969 057A	COSMOS 289	4034	USSR	10 JUL	15 JUL 69	
1969 057D		4035	USSR	10 JUL	16 JUL 69	
1969 058A	LUNA 15	4036	USSR	13 JUL	21 JUL 69	A*
1969 058H		4037	USSR	13 JUL	16 JUL 69	
1969 059C		4038	USSR	13 JUL	16 JUL 69	
1969 059A	APOLLO 11	4039	US	16 JUL	24 JUL 69	AJ*
1969 060A	COSMOS 290	4042	USSR	22 JUL	30 JUL 69	
1969 060B		4044	USSR	22 JUL	29 JUL 69	
1969 061A	MOLNIYA 1-12	4043	USSR	22 JUL	18 JUN 71	
1969 061B		4045	USSR	22 JUL	28 AUG 69	
1969 061C		4046	USSR	22 JUL	23 AUG 69	
1969 061D		4049	USSR	22 JUL	10 JUN 71	
1969 061E		5134	USSR	22 JUL	4 MAY 71	
1969 061F		5289	USSR	22 JUL	15 JUN 71	
1969 061G		5302	USSR	22 JUL	18 JUN 71	
1969 063A		4050	US	24 JUL	23 AUG 69	
1969 064A	INTELSAT 3 F-5	4051	ITSO	26 JUL	14 OCT 68	
1969 064B		4052	US	26 JUL	17 JUL 70	AL*
1969 064D		4055	US	26 JUL	16 FEB 70	
1969 064F		4056	US	26 JUL	4 JUL 70	
1969 064F		4057	US	26 JUL	22 OCT 69	
1969 064G		4059	US	26 JUL	30 DEC 69	
1969 064H		4060	US	26 JUL	19 DEC 69	
1969 064J		4085	US	26 JUL	18 SEP 69	
1969 064K		4086	US	26 JUL	18 FEB 70	
1969 064L		4087	US	26 JUL	9 JAN 70	
1969 064M		4088	US	26 JUL	21 NOV 69	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 064N		4089	US	26 JUL	27 NOV 69	
1969 064P		4090	US	26 JUL	9 OCT 69	
1969 064Q		4091	US	26 JUL	8 NOV 69	
1969 064R		4099	US	26 JUL	2 JAN 70	
1969 064S		4100	US	26 JUL	19 FEB 70	
1969 064T		4101	US	26 JUL	23 SEP 69	
1969 064U		4108	US	26 JUL	30 JAN 70	
1969 064V		4109	US	26 JUL	4 SEP 70	
1969 064W		4110	US	26 JUL	24 OCT 69	
1969 064X		5473	US	26 JUL	5 JAN 75	
1969 065A		4054	US	31 JUL	4 JAN 73	
1969 066A	COSMOS 291	4058	USSR	6 AUG	8 SEP 69	
1969 066B		4061	USSR	6 AUG	11 AUG 69	
1969 067A	ZOND 7	4062	USSR	7 AUG	14 AUG 69	
1969 067B		4063	USSR	7 AUG	10 AUG 69	
1969 067C		4064	USSR	7 AUG	12 AUG 69	
1969 067D		4067	USSR	7 AUG	13 AUG 69	
1969 068A	OSO 6	4065	US	9 AUG	7 MAR 81	
1969 068B	PAC 1	4066	US	9 AUG	28 APR 77	
1969 071A	COSMOS 293	4072	USSR	16 AUG	28 AUG 69	
1969 071B		4073	USSR	16 AUG	20 AUG 69	
1969 072A	COSMOS 294	4074	USSR	19 AUG	27 AUG 69	
1969 072B		4075	USSR	19 AUG	27 AUG 69	
1969 073A	COSMOS 295	4076	USSR	22 AUG	1 DEC 69	
1969 073B		4077	USSR	22 AUG	11 OCT 69	
1969 074A		4078	US	23 AUG	7 SEP 69	
1969 075A	COSMOS 296	4080	USSR	29 AUG	6 SEP 69	
1969 075B		4081	USSR	29 AUG	5 SEP 69	
1969 076A	COSMOS 297	4082	USSR	2 SEP	10 SEP 69	
1969 076B		4083	USSR	2 SEP	11 SEP 69	
1969 077A	COSMOS 298	4092	USSR	15 SEP	15 SEP 69	
1969 077B		4093	USSR	15 SEP	16 SEP 69	
1969 077C		4094	USSR	15 SEP	16 SEP 69	
1969 077D		4095	USSR	15 SEP	16 SEP 69	
1969 077E		4096	USSR	15 SEP	16 SEP 69	
1969 078A	COSMOS 299	4097	USSR	13 SEP	22 SEP 69	
1969 078B		4098	USSR	13 SEP	24 SEP 69	
1969 079A		4102	US	22 SEP	12 OCT 69	
1969 079B		4103	US	22 SEP	16 MAY 71	
1969 080A	COSMOS 300	4104	USSR	23 SEP	27 SEP 69	
1969 080B		4105	USSR	23 SEP	27 SEP 69	
1969 081A	COSMOS 301	4106	USSR	24 SEP	2 OCT 69	
1969 081B		4107	USSR	24 SEP	29 SEP 69	
1969 082A		4111	US	30 SEP	30 OCT 70	
1969 082L		4142	US	30 SEP	3 NOV 80	
1969 082R		4147	US	30 SEP	16 OCT 81	
1969 082S		4148	US	30 SEP	25 JAN 82	
1969 082V		4153	US	30 SEP	14 APR 71	
1969 082AE		4162	US	30 SEP	14 APR 79	
1969 082AF		4163	US	30 SEP	9 JAN 81	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 082AU		4176	US	30 SEP	11 MAY 80	
1969 082AX		4179	US	30 SEP	13 OCT 82	
1969 082BB		4188	US	30 SEP	24 DEC 80	
1969 082BC		4189	US	30 SEP	15 DEC 80	
1969 082BF		4192	US	30 SEP	15 OCT 81	
1969 082BH		4194	US	30 SEP	12 OCT 82	
1969 082BK		4196	US	30 SEP	7 MAY 73	
1969 082BL		4197	US	30 SEP	2 APR 80	
1969 082BM		4198	US	30 SEP	8 APR 81	
1969 082BN		4199	US	30 SEP	31 AUG 81	
1969 082BR		4202	US	30 SEP	8 JUN 80	
1969 082BS		4203	US	30 SEP	8 JAN 82	
1969 082BT		4204	US	30 SEP	8 SEP 79	
1969 082CC		4213	US	30 SEP	13 APR 81	
1969 082CK		4223	US	30 SEP	25 MAR 81	
1969 082CL		4229	US	30 SEP	10 DEC 79	
1969 082CM		4230	US	30 SEP	7 OCT 81	
1969 082CQ		4238	US	30 SEP	30 DEC 78	
1969 082CR		4239	US	30 SEP	19 NOV 79	
1969 082CS		4240	US	30 SEP	24 MAY 80	
1969 082CT		4241	US	30 SEP	9 OCT 80	
1969 082CU		4244	US	30 SEP	11 JUN 79	
1969 082CX		4248	US	30 SEP	21 NOV 78	
1969 082DA		4113	US	30 SEP	21 OCT 69	
1969 082DB		4258	US	30 SEP	16 SEP 89	
1969 082DC		4115	US	30 SEP	21 OCT 69	
1969 082DF		4269	US	30 SEP	29 MAR 79	
1969 082DG		4270	US	30 SEP	16 JUN 80	
1969 082DH		4271	US	30 SEP	23 FEB 80	
1969 082DJ		4272	US	30 SEP	9 SEP 70	
1969 082DN		4288	US	30 SEP	12 SEP 70	
1969 082DQ		4310	US	30 SEP	7 APR 82	
1969 082DT		4317	US	30 SEP	12 NOV 82	
1969 082DV		4319	US	30 SEP	6 NOV 81	
1969 082DW		4323	US	30 SEP	3 FEB 71	
1969 082DX		4324	US	30 SEP	10 MAY 70	
1969 082EA		4335	US	30 SEP	7 MAY 73	
1969 082EC		4359	US	30 SEP	1 OCT 80	
1969 082EE		4433	US	30 SEP	19 APR 79	
1969 082EF		4434	US	30 SEP	5 JAN 80	
1969 082EJ		4437	US	30 SEP	22 JUN 81	
1969 082EL		4439	US	30 SEP	9 MAY 72	
1969 082EQ		4443	US	30 SEP	28 JUL 70	
1969 082ET		4448	US	30 SEP	16 SEP 80	
1969 082EV		4450	US	30 SEP	18 DEC 81	
1969 082EZ		4454	US	30 SEP	25 OCT 81	
1969 082FA		4457	US	30 SEP	19 OCT 70	
1969 082FC		4459	US	30 SEP	19 FEB 80	
1969 082FE		4461	US	30 SEP	13 JUN 74	
1969 082FF		4462	US	30 SEP	25 MAR 82	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 082FG		4463	US	30 SEP	8 JUL 78	
1969 082FH		4464	US	30 SEP	2 APR 81	
1969 082FN		4469	US	30 SEP	30 NOV 80	
1969 082FP		4470	US	30 SEP	15 SEP 81	
1969 082FR		4472	US	30 SEP	21 JUL 80	
1969 082FS		4473	US	30 SEP	18 FEB 81	
1969 082FT		4474	US	30 SEP	14 NOV 79	
1969 082FX		4520	US	30 SEP	20 DEC 77	
1969 082FY		4521	US	30 SEP	18 OCT 80	
1969 082FZ		4522	US	30 SEP	8 MAY 78	
1969 082GD		4532	US	30 SEP	4 MAR 79	
1969 082GE		4533	US	30 SEP	1 MAY 81	
1969 082G5		4535	US	30 SEP	13 JUN 78	
1969 082GH		4540	US	30 SEP	3 FEB 72	
1969 082GJ		4541	US	30 SEP	20 DEC 79	
1969 082GK		4542	US	30 SEP	28 DEC 70	
1969 082GM		4544	US	30 SEP	22 JUL 80	
1969 082GP		4548	US	30 SEP	14 FEB 82	
1969 082GQ		4549	US	30 SEP	12 DEC 79	
1969 082GR		4550	US	30 SEP	5 JAN 78	
1969 082GS		4551	US	30 SEP	26 OCT 81	
1969 082GU		4876	US	30 SEP	13 APR 81	
1969 082GW		4887	US	30 SEP	16 JUL 78	
1969 082GY		4889	US	30 SEP	1 AUG 78	
1969 082HA		4891	US	30 SEP	1 JAN 72	
1969 082HB		4892	US	30 SEP	24 AUG 72	
1969 082HC		4893	US	30 SEP	7 MAY 73	
1969 082HF		4897	US	30 SEP	11 MAR 81	
1969 082HG		4906	US	30 SEP	17 SEP 81	
1969 082HK		4939	US	30 SEP	27 OCT 80	
1969 082HM		5158	US	30 SEP	7 AUG 79	
1969 082HN		5159	US	30 SEP	30 DEC 72	
1969 082HP		5195	US	30 SEP	15 JUN 81	
1969 082HQ		5270	US	30 SEP	20 JAN 74	
1969 082HR		5271	US	30 SEP	7 APR 73	
1969 082HT		5339	US	30 SEP	10 JUN 82	
1969 082HU		5362	US	30 SEP	30 SEP 80	
1969 082HV		5429	US	30 SEP	16 JUN 79	
1969 082HX		5459	US	30 SEP	24 SEP 80	
1969 082JA		5521	US	30 SEP	27 JUL 79	
1969 082JB		5522	US	30 SEP	6 DEC 71	
1969 082JC		5593	US	30 SEP	2 MAY 73	
1969 082JD		5633	US	30 SEP	9 DEC 89	
1969 082JE		5634	US	30 SEP	13 APR 81	
1969 082JG		5636	US	30 SEP	13 MAY 78	
1969 082JJ		5750	US	30 SEP	23 JAN 77	
1969 082JK		5751	US	30 SEP	2 JAN 80	
1969 082JL		5752	US	30 SEP	12 OCT 76	
1969 082JM		5753	US	30 SEP	6 OCT 79	
1969 082JQ		5756	US	30 SEP	26 OCT 74	

DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 082JT		5791	US	30 SEP	3 JAN 77	
1969 082JU		5792	US	30 SEP	5 APR 72	
1969 082JV		5793	US	30 SEP	8 APR 72	
1969 082JX		5823	US	30 SEP	9 APR 72	
1969 082JY		5859	US	30 SEP	10 MAY 82	
1969 082JZ		5868	US	30 SEP	23 OCT 79	
1969 082KA		5869	US	30 SEP	22 FEB 82	
1969 082KC		5900	US	30 SEP	19 MAR 73	
1969 082KD		5964	US	30 SEP	13 AUG 81	
1969 082KF		6044	US	30 SEP	3 DEC 81	
1969 082KG		6178	US	30 SEP	16 DEC 79	
1969 082KJ		7285	US	30 SEP	19 JUL 74	
1969 082KK		8605	US	30 SEP	28 JUN 78	
1969 082KL		9980	US	30 SEP	13 APR 81	
1969 083A	ESRO-18	4114	ESRO	1 OCT	23 NOV 69	
1969 083B		4117	US	1 OCT	3 NOV 69	
1969 083C		4114	US	1 OCT	21 OCT 69	
1969 083D		4118	US	1 OCT	25 OCT 69	
1969 085A	SOYUZ 6	4122	USSR	11 OCT	16 OCT 69	
1969 085B		4123	USSR	11 OCT	12 OCT 69	
1969 085A	SOYUZ 7	4124	USSR	12 OCT	17 OCT 69	
1969 086B		4125	USSR	12 OCT	14 OCT 69	
1969 087A	SOYUZ 8	4126	USSR	13 OCT	18 OCT 69	
1969 087B		4127	USSR	13 OCT	15 OCT 69	
1969 088A	INTERCOSMOS 1	4128	USSR	14 OCT	2 JAN 70	
1969 088B		4129	USSR	14 OCT	16 DEC 69	
1969 089A	COSMOS 302	4130	USSR	17 OCT	25 OCT 69	
1969 089B		4131	USSR	17 OCT	24 OCT 69	
1969 090A	COSMOS 303	4136	USSR	18 OCT	23 JAN 70	
1969 090B		4137	USSR	18 OCT	7 DEC 69	
1969 092A	COSMOS 305	4150	USSR	22 OCT	24 OCT 69	
1969 092B		4151	USSR	22 OCT	24 OCT 69	
1969 093A	COSMOS 306	4182	USSR	24 OCT	5 NOV 69	
1969 093B		4183	USSR	24 OCT	29 OCT 69	
1969 094A	COSMOS 307	4184	USSR	24 OCT	30 DEC 70	
1969 094B		4185	USSR	24 OCT	20 JUL 70	
1969 095A		4186	US	24 OCT	8 NOV 69	
1969 095A	COSMOS 308	4219	USSR	4 NOV	5 JAN 70	
1969 095B		4220	USSR	4 NOV	6 DEC 69	
1969 097C		4242	FRG	8 NOV	7 OCT 81	
1969 097D		4243	FRG	8 NOV	24 AUG 81	
1969 097E		4261	FRG	8 NOV	11 JUL 80	
1969 097F		4265	FRG	8 NOV	13 APR 81	
1969 097A	COSMOS 309	4223	USSR	12 NOV	20 NOV 69	
1969 098B		4224	USSR	12 NOV	22 NOV 69	
1969 093C		4234	USSR	12 NOV	26 NOV 69	
1969 098D		4235	USSR	12 NOV	25 NOV 69	
1969 098E		4236	USSR	12 NOV	30 NOV 69	
1969 099A	APOLLO 12	4225	US	14 NOV	24 NOV 69	AJ*
1969 099C	LUNAR MODULE	4246	US	14 NOV	20 NOV 69	AM*

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1969 LAUNCHES (CONT.)						
1969 100A	COSMOS 310	4232	USSR	15 NOV	23 NOV 69	
1969 100B		4233	USSR	15 NOV	23 NOV 69	
1969 102A	COSMOS 311	4252	USSR	24 NOV	10 MAR 70	
1969 102B		4253	USSR	24 NOV	19 JAN 70	
1969 104A	COSMOS 313	4262	USSR	3 DEC	15 DEC 69	
1969 104B		4263	USSR	3 DEC	6 DEC 69	
1969 105A		4264	US	4 DEC	10 JAN 70	
1969 106A	COSMOS 314	4266	USSR	11 DEC	22 MAR 70	
1969 106B		4267	USSR	11 DEC	27 JAN 70	
1969 107A	COSMOS 315	4273	USSR	20 DEC	25 MAR 79	
1969 107B		4274	USSR	20 DEC	2 APR 79	
1969 107C		4275	USSR	20 DEC	29 APR 70	
1969 107D		4279	USSR	20 DEC	10 OCT 71	
1969 107E		4287	USSR	20 DEC	13 JUN 70	
1969 107F		4294	USSR	20 DEC	14 MAY 70	
1969 108A	COSMOS 316	4282	USSR	23 DEC	28 AUG 70	
1969 108B		4283	USSR	23 DEC	1 JAN 70	
1969 108C		4284	USSR	23 DEC	28 JAN 70	
1969 109A	COSMOS 317	4280	USSR	23 DEC	5 JAN 70	
1969 109B		4281	USSR	23 DEC	28 DEC 69	
1969 109C		4290	USSR	23 DEC	8 JAN 70	
1969 109D		4291	USSR	23 DEC	9 JAN 70	
1969 110A	INTERCOSMOS 2	4285	USSR	25 DEC	7 JUN 70	
1969 110B		4286	USSR	25 DEC	21 MAR 70	
1970 LAUNCHES						
1970 001A	COSMOS 318	4292	USSR	9 JAN	21 JAN 70	
1970 001B		4293	USSR	9 JAN	15 JAN 70	
1970 002A		4296	US	14 JAN	1 FEB 70	
1970 004A	COSMOS 319	4299	USSR	15 JAN	1 JUL 70	
1970 004B		4300	USSR	15 JAN	1 MAY 70	
1970 005A	COSMOS 320	4301	USSR	16 JAN	10 FEB 70	
1970 005B		4302	USSR	16 JAN	28 JAN 70	
1970 005C		4303	USSR	16 JAN	24 JAN 70	
1970 005D		4304	USSR	16 JAN	11 FEB 70	
1970 005E		4305	USSR	16 JAN	3 MAR 70	
1970 005F		4306	USSR	16 JAN	24 JAN 70	
1970 005G		4307	USSR	16 JAN	29 JAN 70	
1970 006A	COSMOS 321	4308	USSR	20 JAN	23 MAR 70	
1970 006B		4309	USSR	20 JAN	7 MAR 70	
1970 006C		4313	USSR	20 JAN	25 JAN 70	
1970 007A		4314	USSR	20 JAN	29 JAN 70	
1970 007B	COSMOS 322	4315	USSR	21 JAN	29 JAN 70	
1970 010A	COSMOS 323	4316	USSR	21 JAN	25 JAN 70	
1970 010B		4328	USSR	10 FEB	18 FEB 70	
1970 013A	MOLNIYA 1-13	4329	USSR	10 FEB	15 FEB 70	
1970 013B		4336	USSR	19 FEB	29 SEP 75	
1970 013C		4333	USSR	19 FEB	9 MAR 70	
		4334	USSR	19 FEB	11 MAR 70	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 013D		4337	USSR	19 FEB	9 JAN 76	
1970 014A	COSMOS 324	4338	USSR	27 FEB	23 MAY 70	
1970 014B		4339	USSR	27 FEB	11 APR 70	
1970 015A	COSMOS 325	4340	USSR	4 MAR	12 MAR 70	
1970 015B		4341	USSR	4 MAR	10 MAR 70	
1970 016A		4342	US	4 MAR	26 MAR 70	
1970 016B		4343	US	4 MAR	10 NOV 71	
1970 017A	DIAL-WIKA	4344	FRG	10 MAR	5 OCT 78	
1970 017B		4345	FRANCE	10 MAR	9 SEP 74	
1970 018A	COSMOS 326	4346	USSR	13 MAR	21 MAR 70	
1970 018B		4347	USSR	13 MAR	23 MAR 70	
1970 019A	METEOR	4349	USSR	17 MAR	18 NOV 83	
1970 019B		4350	USSR	17 MAR	26 NOV 82	
1970 019C		5573	USSR	17 MAR	3 NOV 74	
1970 020A	COSMOS 327	4351	USSR	18 MAR	19 JAN 71	
1970 020B		4352	USSR	18 MAR	27 SEP 70	
1970 022A	COSMOS 328	4355	USSR	27 MAR	9 APR 70	
1970 022B		4356	USSR	27 MAR	1 APR 70	
1970 023A	COSMOS 329	4357	USSR	3 APR	15 APR 70	
1970 023B		4358	USSR	3 APR	5 APR 70	
1970 024A	COSMOS 330	4360	USSR	7 APR	12 JUN 79	
1970 024B		4361	USSR	7 APR	10 NOV 79	
1970 025E		4602	US	8 APR	14 OCT 82	
1970 025J		4606	US	8 APR	14 AUG 79	
1970 025AX		4674	US	8 APR	13 AUG 82	
1970 0258B		4678	US	6 APR	20 FEB 80	
1970 0258P		4701	US	8 APR	22 JUL 72	
1970 0258Q		4702	US	8 APR	7 JUL 72	
1970 0258R		4703	US	8 APR	1 DEC 78	
1970 025CF		4732	US	8 APR	6 FEB 72	
1970 025CP		4740	US	8 APR	10 AUG 72	
1970 025DG		4758	US	8 APR	18 MAR 82	
1970 025DV		4775	US	8 APR	31 JUL 81	
1970 025EN		4853	US	8 APR	23 MAY 79	
1970 025FA		4865	US	8 APR	26 OCT 81	
1970 025EV		4870	US	8 APR	9 NOV 79	
1970 025FD		4898	US	8 APR	10 JUN 82	
1970 025FM		4915	US	8 APR	8 AUG 71	
1970 025FX		4931	US	8 APR	4 AUG 78	
1970 025FZ		4933	US	8 APR	4 JUN 79	
1970 025GC		4936	US	8 APR	8 JUN 79	
1970 025GH		4947	US	8 APR	22 JUL 80	
1970 025GK		4949	US	8 APR	18 JUL 81	
1970 025GS		4972	US	8 APR	5 MAR 72	
1970 025GU		4974	US	8 APR	29 MAY 71	
1970 025GV		4975	US	8 APR	2 JUL 71	
1970 025GY		4978	US	8 APR	2 JUN 78	
1970 025HE		4984	US	8 APR	13 APR 81	
1970 025HV		4999	US	8 APR	11 APR 72	
1970 025HX		5023	US	8 APR	28 OCT 79	
					29 SEP 79	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 025JC		5037	US	8 APR	18 JUL 80	
1970 025JO		5038	US	8 APR	18 JUL 71	
1970 025KO		5190	US	8 APR	10 NOV 79	
1970 025KK		5345	US	8 APR	14 OCT 71	
1970 025KW		5391	US	8 APR	16 FEB 82	
1970 025KZ		5421	US	8 APR	29 AUG 79	
1970 025LB		5423	US	8 APR	5 DEC 71	
1970 025LC		5424	US	8 APR	19 MAR 82	
1970 025LF		5501	US	8 APR	26 DEC 78	
1970 025LN		5509	US	8 APR	11 APR 72	
1970 025LQ		5535	US	8 APR	24 MAR 72	
1970 025LT		5621	US	8 APR	21 MAR 72	
1970 025MF		5700	US	8 APR	16 JUN 79	
1970 025MK		5825	US	8 APR	3 DEC 72	
1970 025MS		6015	US	8 APR	19 FEB 73	
1970 025MT		6051	US	8 APR	17 MAR 76	
1970 025MU		6084	US	8 APR	12 MAY 74	
1970 025MW		6140	US	8 APR	20 MAR 79	
1970 025ND		6185	US	8 APR	8 JUN 81	
1970 025NP		9997	US	8 APR	4 JAN 78	
1970 025PK		17721	US	8 APR	17 AUG 89	
1970 026A	COSMOS 331	4364	USSR	8 APR	16 APR 70	
1970 026B		4365	USSR	8 APR	16 APR 70	
1970 029A	APOLLO 13	4371	US	11 APR	17 APR 70	
1970 029B		4372	US	11 APR	15 APR 70	
1970 030A	COSMOS 333	4373	USSR	15 APR	28 APR 70	
1970 030B		4374	USSR	15 APR	18 APR 70	
1970 030C		4395	USSR	15 APR	2 MAY 70	
1970 030D		4396	USSR	15 APR	9 MAY 70	
1970 031A		4375	US	15 APR	6 MAY 70	
1970 033A	COSMOS 334	4378	USSR	23 APR	9 AUG 70	
1970 033B		4379	USSR	23 APR	16 MAY 70	
1970 033C		4397	USSR	23 APR	8 JUL 70	
1970 033D		4398	USSR	23 APR	25 MAY 70	
1970 033E		4399	USSR	23 APR	16 MAY 70	
1970 034C		4400	PRC	24 APR	23 MAR 83	
1970 035A	COSMOS 335	4380	USSR	24 APR	22 JUN 70	
1970 035B		4381	USSR	24 APR	17 MAY 70	
1970 037C		5055	USSR	28 APR	26 FEB 79	
1970 038A	COSMOS 344	4401	USSR	12 MAY	20 MAY 70	
1970 038B		4402	USSR	12 MAY	20 MAY 70	
1970 039A	COSMOS 345	4403	USSR	20 MAY	28 MAY 70	
1970 039B		4404	USSR	20 MAY	23 MAY 70	
1970 040A		4405	US	20 MAY	17 JUN 70	
1970 040B		4406	US	20 MAY	8 MAR 74	
1970 041A	SOYUZ 9	4407	USSR	1 JUN	19 JUN 70	
1970 041B		4408	USSR	1 JUN	3 JUN 70	
1970 042A	COSMOS 346	4409	USSR	10 JUN	17 JUN 70	
1970 042B		4410	USSR	10 JUN	13 JUN 70	
1970 043A	COSMOS 347	4411	USSR	12 JUN	7 NOV 71	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 0438		4412	USSR	12 JUN	14 FEB 71	
1970 044A	COSMOS 348	4413	USSR	13 JUN	25 JUL 70	
1970 044B		4414	USSR	13 JUN	9 JUL 70	
1970 044C		4415	USSR	13 JUN	17 JUN 70	
1970 045A	COSMOS 349	4416	USSR	17 JUN	25 JUN 70	
1970 045B		4417	USSR	17 JUN	22 JUN 70	
1970 045B		4422	US	25 JUN	6 JUL 70	
1970 048A		4430	USSR	26 JUN	16 FEB 76	
1970 049A	MOLNIYA 1-14	4424	USSR	26 JUN	25 JUL 70	
1970 049B		4424	USSR	26 JUN	17 JUL 70	
1970 049C		4423	USSR	26 JUN	2 MAR 76	
1970 049D		4431	USSR	26 JUN	8 JUL 70	
1970 050A	COSMOS 350	4425	USSR	26 JUN	29 JUN 70	
1970 050B		4426	USSR	26 JUN	13 OCT 70	
1970 051A	COSMOS 351	4427	USSR	27 JUN	18 AUG 70	
1970 051B		4428	USSR	27 JUN	15 JUL 70	
1970 052A	COSMOS 352	4446	USSR	7 JUL	12 JUL 70	
1970 052B		4447	USSR	7 JUL	21 JUL 70	
1970 053A	COSMOS 353	4455	USSR	9 JUL	16 JUL 70	
1970 053B		4456	USSR	9 JUL	19 AUG 70	
1970 054A		4477	US	23 JUL	28 JUL 70	
1970 056A	COSMOS 354	4481	USSR	28 JUL	29 JUL 70	
1970 056B		4480	USSR	28 JUL	29 JUL 70	
1970 056C		4479	USSR	28 JUL	6 DEC 70	
1970 057A	INTERCOSMOS 3	4482	USSR	7 AUG	17 NOV 70	
1970 057B		4483	USSR	7 AUG	15 AUG 70	
1970 058A	COSMOS 355	4484	USSR	7 AUG	14 AUG 70	
1970 058B		4485	USSR	7 AUG	2 OCT 70	
1970 059A	COSMOS 356	4487	USSR	10 AUG	1 OCT 70	
1970 059B		4488	USSR	10 AUG	15 DEC 70	
1970 060A	VENERA 7	4489	USSR	17 AUG	18 AUG 70	
1970 060B		4490	USSR	17 AUG	18 AUG 70	
1970 060C		4491	USSR	17 AUG	3 SEP 70	
1970 061A		4492	US	18 AUG	24 NOV 70	
1970 061A	COSMOS 357	4495	USSR	19 AUG	15 OCT 70	
1970 063B		4496	USSR	19 AUG	26 JUN 90	
1970 064A	COSMOS 358	4497	USSR	20 AUG	7 JUL 79	
1970 064B		4498	USSR	20 AUG	29 OCT 70	
1970 064C		4514	USSR	20 AUG	6 NOV 70	
1970 065A	COSMOS 359	4501	USSR	22 AUG	29 AUG 70	
1970 065B		4502	USSR	22 AUG	11 SEP 70	
1970 065C		4504	USSR	22 AUG	6 OCT 71	
1970 065D		4505	USSR	22 AUG	9 SEP 70	
1970 065E		4506	USSR	22 AUG	26 MAR 75	
1970 066A	NNSS 30190	4503	US	26 AUG	13 APR 81	
1970 067E		6372	US	27 AUG	8 SEP 70	
1970 068A	COSMOS 360	4508	USSR	29 AUG	2 SEP 70	
1970 068B		4509	USSR	29 AUG	9 SEP 70	
1970 068C		4515	USSR	29 AUG	11 SEP 70	
1970 069D		4517	USSR	29 AUG	11 SEP 70	
1970 069E		4516	USSR	29 AUG		

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 071A	COSMOS 361	4524	USSR	8 SEP	21 SEP 70	
1970 071b		4525	USSR	8 SEP	14 SEP 70	
1970 071C		4545	USSR	8 SEP	5 OCT 70	
1970 071D		4546	USSR	8 SEP	26 SEP 70	
1970 072A	LUNA 16	4527	USSR	12 SEP	24 SEP 70	AP*
1970 072B		4528	USSR	12 SEP	15 SEP 70	
1970 072C		4529	USSR	12 SEP	15 SEP 70	
1970 073A	COSMOS 362	4536	USSR	16 SEP	13 OCT 71	
1970 073B		4537	USSR	16 SEP	23 MAR 71	
1970 074A	COSMOS 363	4538	USSR	17 SEP	29 SEP 70	
1970 074B		4539	USSR	17 SEP	22 SEP 70	
1970 075A	COSMOS 364	4553	USSR	22 SEP	2 OCT 70	
1970 075B		4554	USSR	22 SEP	28 SEP 70	
1970 075C		4563	USSR	22 SEP	9 OCT 70	
1970 076A	COSMOS 365	4556	USSR	25 SEP	25 SEP 70	
1970 076b		4557	USSR	25 SEP	26 SEP 70	
1970 076C		4558	USSR	25 SEP	25 SEP 70	
1970 077A	MOLNIYA 1-15	4569	USSR	29 SEP	20 MAR 76	
1970 077B		4559	USSR	29 SEP	23 OCT 70	
1970 077C		4560	USSR	29 SEP	16 OCT 70	
1970 077D		4570	USSR	29 SEP	31 MAY 72	
1970 077E	COSMOS 366	5950	USSR	29 SEP	30 APR 72	
1970 078A		4561	USSR	1 OCT	13 OCT 70	
1970 078B		4562	USSR	1 OCT	6 OCT 70	
1970 079B		4565	USSR	3 OCT	6 OCT 70	
1970 079C	COSMOS 368	4565	USSR	3 OCT	31 OCT 70	
1970 079D		4567	USSR	3 OCT	8 OCT 70	
1970 079E		4568	USSR	3 OCT	12 OCT 70	
1970 080A		4571	USSR	6 OCT	14 OCT 70	
1970 080B		4572	USSR	8 OCT	20 OCT 70	
1970 080C		4575	USSR	8 OCT	7 JAN 71	
1970 080D		4582	USSR	8 OCT	19 OCT 70	
1970 080E		4585	USSR	8 OCT	4 NOV 70	
1970 081A	COSMOS 369	4573	USSR	6 OCT	22 JAN 71	
1970 081B		4574	USSR	6 OCT	30 NOV 70	
1970 082A	COSMOS 370	4576	USSR	9 OCT	22 OCT 70	
1970 082B		4577	USSR	9 OCT	13 OCT 70	
1970 082C	INTERCOSMOS 4	4593	USSR	9 OCT	27 OCT 70	
1970 084A		4580	USSR	14 OCT	17 JAN 71	
1970 084B		4581	USSR	14 OCT	17 DEC 70	
1970 085C		6330	USSR	15 OCT	10 MAR 90	
1970 087A	COSMOS 373	4590	USSR	20 OCT	8 MAR 80	
1970 087B	ZOND 8	4595	USSR	20 OCT	18 JAN 71	
1970 098A		4591	USSR	20 OCT	27 OCT 70	
1970 088B		4592	USSR	20 OCT	26 OCT 70	
1970 089M		4669	USSR	23 OCT	8 AUG 80	
1970 089N		4670	USSR	23 OCT	3 APR 78	
1970 089P		4671	USSR	23 OCT	27 JAN 79	
1970 089U		4824	USSR	23 OCT	21 OCT 79	
1970 089V		5022	USSR	23 OCT	24 JUN 72	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 089AA		5029	USSR	23 OCT	3 JUN 81	
1970 089AF		5068	USSR	23 OCT	5 DEC 76	
1970 089AG		5069	USSR	23 OCT	22 FEB 72	
1970 089AJ		5071	USSR	23 OCT	2 OCT 78	
1970 089AK		5072	USSR	23 OCT	13 APR 81	
1970 089AL		5073	USSR	23 OCT	26 JUL 71	
1970 089AM		5074	USSR	23 OCT	13 APR 81	
1970 089AR		5078	USSR	23 OCT	22 APR 72	
1970 089AS		5079	USSR	23 OCT	26 MAR 79	
1970 089AT		5080	USSR	23 OCT	29 JUN 81	
1970 089AU		5081	USSR	23 OCT	29 OCT 81	
1970 089AV		5096	USSR	23 OCT	1 MAY 79	
1970 089AW		5132	USSR	23 OCT	10 NOV 82	
1970 089AX		5136	USSR	23 OCT	9 NOV 81	
1970 089AY		5138	USSR	23 OCT	24 MAR 72	
1970 089BA		5189	USSR	23 OCT	10 NOV 82	
1970 089BC		5199	USSR	23 OCT	5 DEC 76	
1970 089BD		5202	USSR	23 OCT	23 AUG 77	
1970 089BE		5224	USSR	23 OCT	22 DEC 78	
1970 089BH		5276	USSR	23 OCT	16 JUN 79	
1970 089BK		5279	USSR	23 OCT	22 NOV 82	
1970 089BL		5293	USSR	23 OCT	5 DEC 75	
1970 089BM		5294	USSR	23 OCT	16 FEB 72	
1970 089BQ		5321	USSR	23 OCT	5 DEC 76	
1970 089BR		5335	USSR	23 OCT	20 NOV 76	
1970 089BU		5411	USSR	23 OCT	2 JUN 82	
1970 089BV		5412	USSR	23 OCT	30 APR 80	
1970 089BW		5413	USSR	23 OCT	24 JUL 80	
1970 0893X		5431	USSR	23 OCT	26 JAN 72	
1970 0898Z		5433	USSR	23 OCT	1 JAN 82	
1970 089CA		5454	USSR	23 OCT	21 APR 80	
1970 089CB		5455	USSR	23 OCT	3 SEP 75	
1970 089CC		5456	USSR	23 OCT	3 SEP 77	
1970 089CE		5458	USSR	23 OCT	12 APR 76	
1970 089CF		5523	USSR	23 OCT	24 FEB 81	
1970 089CG		5524	USSR	23 OCT	7 APR 79	
1970 089CM		5796	USSR	23 OCT	6 AUG 72	
1970 089CN		5797	USSR	23 OCT	5 MAY 74	
1970 089CP		5896	USSR	23 OCT	2 APR 73	
1970 089CQ		5897	USSR	23 OCT	22 JUL 81	
1970 089CR		5898	USSR	23 OCT	5 NOV 81	
1970 089CS		5963	USSR	23 OCT	23 JUL 79	
1970 089CU		6177	USSR	23 OCT	4 JAN 82	
1970 089DG		20049	USSR	23 OCT	15 JUN 89	
1970 090A		4596	US	23 OCT	11 NOV 70	
1970 091F		4626	USSR	30 OCT	20 FEB 80	
1970 091P		4662	USSR	30 OCT	7 APR 82	
1970 091AA		4729	USSR	30 OCT	22 OCT 80	
1970 091AB		4730	USSR	30 OCT	26 NOV 78	
1970 091AC		4731	USSR	30 OCT	24 FEB 81	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 091AD		4826	USSR	30 OCT	5 AUG 81	
1970 091AF		4828	USSR	30 OCT	9 NOV 80	
1970 091AG		4896	USSR	30 OCT	16 SEP 77	
1970 091AN		5084	USSR	30 OCT	22 NOV 82	
1970 091AP		5089	USSR	30 OCT	5 DEC 76	
1970 092A	COSMOS 376	4599	USSR	30 OCT	12 NOV 70	
1970 092B		4600	USSR	30 OCT	5 NOV 70	
1970 092C		4700	USSR	30 OCT	20 NOV 70	
1970 093C		4631	US	6 NOV	7 NOV 70	
1970 094A	OFQ 1	4690	US	9 NOV	9 MAY 71	
1970 094B	RMS	4692	US	9 NOV	7 FEB 71	
1970 094C		4693	US	9 NOV	18 DEC 70	
1970 094D		4747	US	9 NOV	25 JAN 71	
1970 094E		4844	US	9 NOV	21 JAN 71	
1970 095A	LUNA 17	4691	USSR	10 NOV	17 NOV 70	
1970 095B		4694	USSR	10 NOV	13 NOV 70	
1970 095C		4697	USSR	10 NOV	13 NOV 70	
1970 096A	COSMOS 377	4695	USSR	11 NOV	23 NOV 70	
1970 096B		4696	USSR	11 NOV	16 NOV 70	
1970 097A	COSMOS 378	4713	USSR	17 NOV	17 AUG 72	
1970 097B		4714	USSR	17 NOV	30 SEP 72	
1970 098A		4721	US	18 NOV	11 DEC 70	
1970 0988		4722	US	18 NOV	14 SEP 77	
1970 099A	COSMOS 379	4760	USSR	24 NOV	21 SEP 83	
1970 099B		4761	USSR	24 NOV	26 NOV 70	
1970 099C		4780	USSR	24 NOV	13 FEB 71	
1970 099D	COSMOS 380	4817	USSR	24 NOV	2 JAN 71	
1970 100A		4762	USSR	24 NOV	17 JUN 71	
1970 100B		4763	USSR	24 NOV	9 APR 71	
1970 101A	MOLNIYA 1-16	4779	USSR	24 NOV	25 NOV 75	
1970 101B		4781	USSR	27 NOV	11 DEC 70	
1970 101C		4782	USSR	27 NOV	17 DEC 70	
1970 101D		4785	USSR	27 NOV	2 JAN 76	
1970 103D		5316	USSR	2 DEC	7 NOV 90	
1970 103E		5326	USSR	2 DEC	3 JAN 77	
1970 103F		6072	USSR	2 DEC	3 JAN 77	
1970 104A	COSMOS 383	4787	USSR	3 DEC	16 DEC 70	
1970 104B		4788	USSR	3 DEC	9 DEC 70	
1970 105A	COSMOS 384	4791	USSR	10 DEC	22 DEC 70	
1970 105B		4792	USSR	10 DEC	15 DEC 70	
1970 105C		4795	USSR	10 DEC	18 DEC 70	
1970 105D		4796	USSR	10 DEC	18 DEC 70	
1970 105E		4810	USSR	10 DEC	27 DEC 70	
1970 107A	EXPLORER 42	4797	US	12 DEC	5 APR 79	
1970 107B		4798	US	12 DEC	15 DEC 78	
1970 109A	PEOLF	4801	FRANCE	12 DEC	16 JUN 80	
1970 109C		4803	FRANCE	12 DEC	14 MAY 80	
1970 109D		4839	FRANCE	12 DEC	20 APR 79	
1970 109E		5264	FRANCE	12 DEC	6 JAN 80	
1970 109F		5952	FRANCE	12 DEC	30 OCT 76	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1970 LAUNCHES (CONT.)						
1970 110A	COSMOS 386	4804	USSR	15 DEC	28 DEC 70	
1970 110B		4305	USSR	15 DEC	19 DEC 70	
1970 110C		4908	USSR	15 DEC	17 DEC 70	
1970 110D		4835	USSR	15 DEC	12 JAN 71	
1970 110E		4836	USSR	15 DEC	3 JAN 71	
1970 110F		4838	USSR	15 DEC	2 JAN 71	
1970 111A		4806	USSR	16 DEC	19 JAN 80	
1970 111B	COSMOS 387	4807	USSR	16 DEC	25 MAR 80	
1970 111C		4809	USSR	16 DEC	12 DEC 71	
1970 111D		4815	USSR	16 DEC	3 SEP 71	
1970 111E		4816	USSR	16 DEC	24 AUG 71	
1970 112A		4811	USSR	18 DEC	10 MAY 71	
1970 112B		4912	USSR	18 DEC	17 FEB 71	
1970 113C		4834	USSR	18 DEC	19 SEP 72	
1970 114A		4829	USSR	25 DEC	22 DEC 75	
1970 114B		4830	USSR	25 DEC	23 JAN 71	
1970 114C		4831	USSR	25 DEC	10 FEB 71	
1970 114D		4832	USSR	25 DEC	2 JAN 71	
1970 114E		4833	USSR	25 DEC	2 JAN 71	
1970 114F		4837	USSR	25 DEC	3 MAR 73	
1970 114G		6313	USSR	25 DEC	7 FEB 73	
1971 LAUNCHES						
1971 000D		5309	US	UNKN	26 JUN 73	AQ*
1971 001A		4845	USSR	12 JAN	25 JAN 71	
1971 001B	COSMOS 390	4846	USSR	12 JAN	17 JAN 71	
1971 001C		4878	USSR	12 JAN	1 FEB 71	
1971 001D		4879	USSR	12 JAN	27 JAN 71	
1971 001E		4883	USSR	12 JAN	27 JAN 71	
1971 001F		4886	USSR	12 JAN	27 JAN 71	
1971 002A		4847	USSR	14 JAN	21 FEB 72	
1971 002B	COSMOS 391	4848	USSR	14 JAN	21 AUG 71	
1971 004A		4872	USSR	21 JAN	2 FEB 71	
1971 0043	COSMOS 392	4873	USSR	21 JAN	26 JAN 71	
1971 005A		4874	US	21 JAN	9 FEB 71	
1971 005B		4875	US	21 JAN	22 JAN 71	
1971 005C		4903	US	21 JAN	9 FEB 71	
1971 007A	COSMOS 393	4894	USSR	26 JAN	16 JUN 71	
1971 007B		4885	USSR	26 JAN	31 MAR 71	
1971 008A	APOLLO 14	4900	US	31 JAN	9 FEB 71	
1971 0073		4904	US	31 JAN	4 FEB 71	
1971 009C	LUNAR MODULE	4905	US	31 JAN	7 FEB 71	
1971 009C		5974	US	3 FEB	10 AUG 75	
1971 010B		4923	USSR	9 FEB	21 MAR 84	
1971 010C		4927	USSR	9 FEB	18 APR 81	
1971 011C		5419	JAPAN	16 FEB	26 JUL 80	
1971 012C		4957	US	17 FEB	17 OCT 89	
1971 012D		4958	US	17 FEB	20 SEP 89	
1971 012E		4963	US	17 FEB	7 JAN 90	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECAYED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)							
1971 013A	COSMOS 395	4955		USSR	17 FEB	6 APR 80	
1971 013B		4956		USSR	17 FEB	19 JUL 80	
1971 013C		5001		USSR	17 FEB	15 FEB 72	
1971 013D		5002		USSR	17 FEB	17 JAN 72	
1971 013E		5227		USSR	17 FEB	6 SEP 71	
1971 014A	COSMOS 396	4959		USSR	18 FEB	3 MAR 71	
1971 014B		4960		USSR	18 FEB	25 FEB 71	
1971 014C		4961		USSR	18 FEB	20 FEB 71	
1971 014D		4962		USSR	18 FEB	21 FEB 71	
1971 014E		5005		USSR	18 FEB	8 MAR 71	
1971 014F		5006		USSR	18 FEB	4 MAR 71	
1971 015B		4965		USSR	25 FEB	4 MAR 71	
1971 015Z		5100		USSR	25 FEB	10 FEB 82	
1971 015AD		5130		USSR	25 FEB	24 OCT 80	
1971 015AQ		5193		USSR	25 FEB	8 MAR 80	
1971 015AR		5194		USSR	25 FEB	25 MAY 80	
1971 015AV		5201		USSR	25 FEB	9 AUG 77	
1971 015BA		5262		USSR	25 FEB	4 OCT 74	
1971 015BD		5274		USSR	25 FEB	19 AUG 80	
1971 015BG		5323		USSR	25 FEB	13 APR 81	
1971 015BH		5324		USSR	25 FEB	19 NOV 80	
1971 015BM		5415		USSR	25 FEB	9 JUL 78	
1971 015BS		5528		USSR	25 FEB	21 FEB 78	
1971 015BW		5532		USSR	25 FEB	16 OCT 81	
1971 015CE		5762		USSR	25 FEB	5 OCT 81	
1971 015CG		6043		USSR	25 FEB	31 JUL 79	
1971 015CJ		6749		USSR	25 FEB	11 JUN 74	
1971 016B		4967		USSR	26 FEB	1 MAR 71	
1971 016C		5008		USSR	26 FEB	12 MAY 71	
1971 016D		5039		USSR	26 FEB	28 MAR 71	
1971 016E		5040		USSR	26 FEB	23 MAR 71	
1971 017A	COSMOS 399	5003		USSR	3 MAR	17 MAR 71	
1971 017B		5004		USSR	3 MAR	8 MAR 71	
1971 017C		5047		USSR	3 MAR	25 MAR 71	
1971 017D		5048		USSR	3 MAR	31 MAR 71	
1971 017E		5049		USSR	3 MAR	23 MAR 71	
1971 018A	MAO 2	5007		PRC	3 MAR	17 JUN 79	
1971 018B		5041		PRC	3 MAR	16 FEB 76	
1971 019A	EXPLORER 43	5043		US	13 MAR	2 OCT 74	
1971 019B		5044		US	13 MAR	22 MAY 71	
1971 019C		5045		US	13 MAR	15 MAR 75	
1971 019D		5046		US	13 MAR	19 APR 71	
1971 019E		5112		US	13 MAR	19 APR 71	
1971 022A		5059		US	24 MAR	12 APR 71	
1971 023A	COSMOS 401	5086		USSR	27 MAR	9 APR 71	
1971 023B		5087		USSR	27 MAR	2 APR 71	
1971 023C		5119		USSR	27 MAR	16 APR 71	
1971 023D		5120		USSR	27 MAR	12 APR 71	
1971 023E		5121		USSR	27 MAR	12 APR 71	
1971 025B		5107		USSR	1 APR	6 MAY 71	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 025C		5109	USSR	1 APR	6 APR 71	
1971 025D		5110	USSR	1 APR	5 APR 71	
1971 026A	COSMOS 403	5109	USSR	2 APR	14 APR 71	
1971 026B		5111	USSR	2 APR	5 APR 71	
1971 027A	CUSMOS 404	5113	USSR	4 APR	4 APR 71	
1971 027B		5114	USSR	4 APR	12 APR 71	
1971 027C		5115	USSR	4 APR	6 APR 71	
1971 027D		5116	USSR	4 APR	7 APR 71	
1971 028C		5311	USSR	7 APR	12 MAY 74	
1971 029A	COSMOS 406	5124	USSR	14 APR	24 APR 71	
1971 029B		5125	USSR	14 APR	17 APR 71	
1971 029C		5127	USSR	14 APR	14 APR 71	
1971 029D		5169	USSR	14 APR	24 APR 71	
1971 029E		5170	USSR	14 APR	28 APR 71	
1971 029F		5179	USSR	14 APR	26 APR 71	
1971 030A	TOURNESOL	5128	FRANCE	15 APR	28 JAN 80	
1971 030B		5135	FRANCE	15 APR	10 JUL 79	
1971 030C		5139	FRANCE	15 APR	15 JUL 72	
1971 030D		5140	FRANCE	15 APR	15 JUL 77	
1971 030E		5141	FRANCE	15 APR	15 APR 76	
1971 030F		5164	FRANCE	15 APR	3 FEB 77	
1971 030G		5209	FRANCE	15 APR	13 JUL 72	
1971 030H		5269	FRANCE	15 APR	22 MAR 75	
1971 031A	METEOR	5142	USSR	17 APR	10 JAN 91	
1971 032A	SALYUT 1	5160	USSR	19 APR	11 OCT 71	
1971 032B		5161	USSR	19 APR	20 APR 71	
1971 032C		5162	USSR	19 APR	20 APR 71	
1971 032D		5163	USSR	19 APR	21 APR 71	
1971 032E		5166	USSR	19 APR	24 APR 71	
1971 032F		5167	USSR	19 APR	21 APR 71	
1971 032G		5168	USSR	19 APR	21 APR 71	
1971 033A		5171	US	22 APR	13 MAY 71	
1971 034A	SOYUZ 10	5172	USSR	22 APR	24 APR 71	
1971 034B		5173	USSR	22 APR	25 APR 71	
1971 036A	SAN MARCO 3	5175	ITALY	24 APR	29 NOV 71	
1971 037A	COSMOS 408	5177	USSR	24 APR	29 DEC 71	
1971 037B		5178	USSR	24 APR	29 SEP 71	
1971 039C		5206	US	5 MAY	5 MAY 71	
1971 040A	COSMOS 410	5207	USSR	6 MAY	18 MAY 71	
1971 040B		5208	USSR	6 MAY	11 MAY 71	
1971 040C		5228	USSR	6 MAY	25 MAY 71	
1971 040D		5229	USSR	6 MAY	19 MAY 71	
1971 042A	COSMOS 419	5221	USSR	10 MAY	12 MAY 71	
1971 043A	COSMOS 420	5230	USSR	18 MAY	29 MAY 71	
1971 043B		5231	USSR	18 MAY	21 MAY 71	
1971 043C		5250	USSR	18 MAY	3 JUN 71	
1971 043D		5251	USSR	18 MAY	30 MAY 71	
1971 043E		5260	USSR	18 MAY	31 MAY 71	
1971 044A	COSMOS 421	5232	USSR	19 MAY	8 NOV 71	
1971 044B		5233	USSR	19 MAY	23 AUG 71	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CCNT.)						
1971 045B		5235	USSR	19 MAY	21 MAY 71	
1971 045C		5236	USSR	19 MAY	21 MAY 71	
1971 045D	CAPSULE	5739	USSR	19 MAY	27 NOV 71	AR*
1971 047A	COSMOS 423	5246	USSR	27 MAY	26 NOV 71	
1971 047B		5247	USSR	27 MAY	29 AUG 71	
1971 048A	COSMOS 424	5248	USSR	28 MAY	10 JUN 71	
1971 048B		5249	USSR	28 MAY	3 JUN 71	
1971 048C		5286	USSR	28 MAY	15 JUN 71	
1971 048D		5287	USSR	28 MAY	11 JUN 71	
1971 048E		5292	USSR	28 MAY	11 JUN 71	
1971 049B		5255	USSR	28 MAY	31 MAY 71	
1971 049C		5256	USSR	28 MAY	31 MAY 71	
1971 049D		5263	USSR	28 MAY	1 JUN 71	
1971 049E	CAPSULE	5667	USSR	28 MAY	2 DEC 71	
1971 050A	COSMOS 425	5253	USSR	29 MAY	15 JAN 80	AR*
1971 050B		5254	USSR	29 MAY	28 NOV 79	
1971 050C		5257	USSR	29 MAY	22 MAR 72	
1971 050D		5258	USSR	29 MAY	6 APR 72	
1971 050E		5259	USSR	29 MAY	9 JUN 72	
1971 050F		5299	USSR	29 MAY	14 MAY 72	
1971 052C		5722	USSR	4 JUN	24 MAR 73	
1971 052D		5723	USSR	4 JUN	21 SEP 74	
1971 052E		5782	USSR	4 JUN	22 JUN 73	
1971 052F		5956	USSR	4 JUN	8 DEC 77	
1971 053A	SONUZ 11	5283	USSR	6 JUN	29 JUN 71	AD*
1971 053B		5284	USSR	6 JUN	7 JUN 71	
1971 054A		5285	US	8 JUN	31 JAN 82	
1971 055A	COSMOS 427	5289	USSR	11 JUN	23 JUN 71	
1971 055B		5290	USSR	11 JUN	20 JUN 71	
1971 055C		5291	USSR	11 JUN	15 JUN 71	
1971 055D		5303	USSR	11 JUN	25 JUN 71	
1971 055E		5304	USSR	11 JUN	28 JUN 71	
1971 056A		5297	US	15 JUN	6 AUG 71	
1971 056B		5298	US	15 JUN	20 JUN 71	
1971 057A	COSMOS 428	5305	USSR	24 JUN	6 JUL 71	
1971 057B		5306	USSR	24 JUN	28 JUN 71	
1971 057C		5307	USSR	24 JUN	27 JUN 71	
1971 057D		5308	USSR	24 JUN	27 JUN 71	
1971 057E		5313	USSR	24 JUN	7 JUL 71	
1971 057F		5314	USSR	24 JUN	5 JUL 71	
1971 057G		5315	USSR	24 JUN	13 JUL 71	
1971 058A	EXPLORER 44	5317	US	24 JUN	15 DEC 79	
1971 058B		5318	US	8 JUL	28 JAN 76	
1971 059C		5319	US	8 JUL	22 SEP 72	
1971 059D		5320	US	8 JUL	7 NOV 75	
1971 059A	METEOR	5327	USSR	16 JUL	27 AUG 91	
1971 059C		5330	USSR	16 JUL	25 AUG 74	
1971 060A		5329	US	16 JUL	31 AUG 78	
1971 061A	COSMOS 429	5331	USSR	20 JUL	2 AUG 71	
1971 061B		5332	USSR	20 JUL	23 JUL 71	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 061C		5370	USSR	20 JUL	3 AUG 71	
1971 061D		5371	USSR	20 JUL	4 AUG 71	
1971 061E		5373	USSR	20 JUL	4 AUG 71	
1971 062A	COSMOS 430	5340	USSR	23 JUL	5 AUG 71	
1971 062B		5341	USSR	23 JUL	29 JUL 71	
1971 062C		5342	USSR	23 JUL	26 JUL 71	
1971 062D		5343	USSR	23 JUL	25 JUL 71	
1971 062E		5374	USSR	23 JUL	6 AUG 71	
1971 062F		5378	USSR	23 JUL	9 AUG 71	
1971 062G		5385	USSR	23 JUL	7 AUG 71	
1971 063A	APOLLO 15	5351	US	26 JUL	7 AUG 71	AJ*
1971 063B		5352	US	26 JUL	30 JUL 71	G*
1971 063C		5366	US	26 JUL	3 AUG 71	AM*
1971 064A	LUNAR MODULE	5367	USSR	28 JUL	19 JUL 77	
1971 064B	MOONRIYA 1-18	5353	USSR	28 JUL	29 AUG 71	
1971 064C		5354	USSR	28 JUL	24 AUG 71	
1971 064D		5360	USSR	28 JUL	14 AUG 77	
1971 064E		5355	USSR	28 JUL	4 AUG 71	
1971 064F		5356	USSR	28 JUL	2 AUG 71	
1971 065A		5364	USSR	30 JUL	11 AUG 71	
1971 065B	COSMOS 431	5365	USSR	30 JUL	4 AUG 71	
1971 065C		5369	USSR	30 JUL	5 AUG 71	
1971 066A		5379	USSR	5 AUG	18 AUG 71	
1971 066B		5380	USSR	5 AUG	9 AUG 71	
1971 066C		5381	USSR	5 AUG	8 AUG 71	
1971 066D		5436	USSR	5 AUG	21 AUG 71	
1971 066E		5437	USSR	5 AUG	18 AUG 71	
1971 067A	OVI-20	5394	US	7 AUG	28 AUG 71	
1971 067C	BAR-901	5382	US	7 AUG	31 JAN 72	
1971 067D	BAR-907	5393	US	7 AUG	19 SEP 71	
1971 067E		5396	US	7 AUG	11 JUN 72	
1971 067G		5401	US	7 AUG	14 APR 79	
1971 067H		5406	US	7 AUG	2 NOV 79	
1971 067P		5410	US	7 AUG	1 SEP 81	
1971 068A		5402	USSR	8 AUG	9 AUG 71	
1971 068B	COSMOS 433	5403	USSR	8 AUG	10 AUG 71	
1971 068C		5404	USSR	8 AUG	10 AUG 71	
1971 069A		5407	USSR	12 AUG	12 AUG 81	
1971 069B		5408	USSR	12 AUG	18 AUG 71	
1971 069D		5427	USSR	12 AUG	19 SEP 71	
1971 069E		5428	USSR	12 AUG	28 OCT 71	
1971 069F		5409	US	12 AUG	3 SEP 71	
1971 070A		5452	US	12 AUG	4 SEP 71	
1971 070B		5441	USSR	12 AUG	28 JAN 72	
1971 072A	COSMOS 435	5442	USSR	27 AUG	20 NOV 71	
1971 072B		5448	USSR	27 AUG	11 SEP 71	A*
1971 073A	LUNA 14	5450	USSR	2 SEP	7 SEP 71	
1971 073C		5451	USSR	2 SEP	7 SEP 71	
1971 073D		5453	USSR	2 SEP	8 SEP 71	
1971 073E		5461	USSR	2 SEP	4 JAN 80	
1971 074A	COSMOS 436			7 SEP		

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 074B		5462	USSR	7 SEP	13 MAR 80	
1971 074C		5463	USSR	7 SEP	12 MAY 72	AS*
1971 074D		5464	USSR	7 SEP	22 JAN 72	
1971 074E		5465	USSR	7 SEP	9 MAY 72	
1971 074F		5470	USSR	7 SEP	11 MAY 72	
1971 074G		5583	USSR	7 SEP	30 JUL 72	
1971 074H		5584	USSR	7 SEP	19 APR 72	
1971 074J		5718	USSR	7 SEP	7 JUN 72	
1971 074K		5776	USSR	7 SEP	6 MAY 72	
1971 074L		5777	USSR	7 SEP	11 JUN 72	
1971 074M		5779	USSR	7 SEP	11 APR 72	
1971 074N		5780	USSR	7 SEP	5 JUL 72	
1971 074P		5781	USSR	7 SEP	27 MAY 72	
1971 074Q		5783	USSR	7 SEP	12 JUL 72	
1971 075A	COSMOS 437	5465	USSR	10 SEP	29 MAR 80	
1971 075B		5467	USSR	10 SEP	6 JAN 80	
1971 075C		8779	USSR	10 SEP	23 FEB 77	
1971 076A		5468	US	10 SEP	5 OCT 71	
1971 076B		5469	US	10 SEP	3 FEB 76	
1971 076C		6181	US	10 SEP	29 MAR 73	
1971 077A	COSMOS 438	5475	USSR	14 SEP	27 SEP 71	
1971 077B		5476	USSR	14 SEP	22 SEP 71	
1971 077C		5477	USSR	14 SEP	16 SEP 71	
1971 077D		5482	USSR	14 SEP	28 SEP 71	
1971 077E		5483	USSR	14 SEP	27 SEP 71	
1971 077F		5484	USSR	14 SEP	30 SEP 71	
1971 078A	COSMOS 439	5478	USSR	21 SEP	2 OCT 71	
1971 078B		5479	USSR	21 SEP	27 SEP 71	
1971 079A	COSMOS 440	5490	USSR	24 SEP	29 OCT 72	
1971 079B		5481	USSR	24 SEP	10 MAY 72	
1971 081A	COSMOS 441	5486	USSR	28 SEP	10 OCT 71	
1971 081B		5487	USSR	28 SEP	3 OCT 71	
1971 081C		5495	USSR	28 SEP	6 OCT 71	
1971 081D		5496	USSR	28 SEP	26 SEP 71	
1971 081E		5541	USSR	28 SEP	13 OCT 71	
1971 081F		5542	USSR	28 SEP	11 OCT 71	
1971 081G		5543	USSR	28 SEP	12 OCT 71	
1971 082B		5489	USSR	28 SEP	1 OCT 71	
1971 082D		5494	USSR	28 SEP	1 OCT 71	
1971 083A	OSN 7	5491	US	29 SEP	9 JUL 74	
1971 083B	TETR 4	5492	US	29 SEP	21 SEP 79	
1971 083C		5499	US	29 SEP	24 JAN 74	
1971 083D		5610	US	29 SEP	20 DEC 71	
1971 084A	COSMOS 442	5493	USSR	29 SEP	12 OCT 71	
1971 084B		5497	USSR	29 SEP	6 OCT 71	
1971 084C		5544	USSR	29 SEP	14 OCT 71	
1971 084D		5545	USSR	29 SEP	17 OCT 71	
1971 084E		5546	USSR	29 SEP	19 OCT 71	
1971 085A	COSMOS 443	5536	USSR	7 OCT	19 OCT 71	
1971 085B		5537	USSR	7 OCT	13 OCT 71	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 085C		5539	USSR	7 OCT	14 OCT 71	
1971 085D		5539	USSR	7 OCT	10 OCT 71	
1971 085E		5561	USSR	7 OCT	21 OCT 71	
1971 085F		5562	USSR	7 OCT	30 OCT 71	
1971 088A	COSMOS 452	5558	USSR	14 OCT	27 OCT 71	
1971 088B		5559	USSR	14 OCT	18 OCT 71	
1971 088C		5577	USSR	14 OCT	28 OCT 71	
1971 088D		5578	USSR	14 OCT	31 OCT 71	
1971 088E		5579	USSR	14 OCT	30 OCT 71	
1971 088F		5590	USSR	14 OCT	16 NOV 71	
1971 090A	COSMOS 453	5563	USSR	19 OCT	19 MAR 72	
1971 090B		5564	USSR	19 OCT	1 JAN 72	
1971 090C		5596	USSR	19 OCT	24 DEC 71	
1971 091A		5565	US	21 OCT	21 JUL 72	
1971 091B		5566	US	21 OCT	18 NOV 71	
1971 091C		5570	US	21 OCT	9 FEB 72	
1971 091D		5576	US	21 OCT	23 JUL 83	
1971 091E		5602	US	21 OCT	1 JUL 74	
1971 092A		5575	US	23 OCT	17 NOV 71	
1971 092B		5606	US	23 OCT	17 NOV 71	
1971 093C		5582	UK	28 OCT	16 DEC 79	
1971 094A	COSMOS 454	5585	USSR	2 NOV	16 NOV 71	
1971 094B		5586	USSR	2 NOV	6 NOV 71	
1971 094C		5603	USSR	2 NOV	22 NOV 71	
1971 094D		5604	USSR	2 NOV	25 NOV 71	
1971 094E		5605	USSR	2 NOV	22 NOV 71	
1971 094F		5607	USSR	2 NOV	21 NOV 71	
1971 096B		5973	US	15 NOV	3 MAR 87	
1971 097A	COSMOS 455	5608	USSR	17 NOV	9 APR 72	
1971 097B		5609	USSR	17 NOV	8 FEB 72	
1971 098A	COSMOS 456	5611	USSR	19 NOV	2 DEC 71	
1971 098B		5612	USSR	19 NOV	25 NOV 71	
1971 098C		5613	USSR	19 NOV	20 NOV 71	
1971 098D		5616	USSR	19 NOV	20 NOV 71	
1971 098E		5637	USSR	19 NOV	10 DEC 71	
1971 098F		5640	USSR	19 NOV	6 DEC 71	
1971 098G		5653	USSR	19 NOV	5 DEC 71	
1971 098H		5657	USSR	19 NOV	6 DEC 71	
1971 100A	MOLNIYA 2-1	5620	USSR	24 NOV	10 MAY 76	
1971 100B		5617	USSR	24 NOV	19 DEC 71	
1971 100C		5618	USSR	24 NOV	30 DEC 71	
1971 100D		5619	USSR	24 NOV	29 NOV 71	
1971 100E		5689	USSR	24 NOV	5 JAN 74	
1971 101A	COSMOS 458	5623	USSR	29 NOV	20 APR 72	
1971 101B		5624	USSR	29 NOV	14 FEB 72	
1971 102A	COSMOS 459	5625	USSR	29 NOV	27 DEC 71	
1971 102B		5626	USSR	29 NOV	11 DEC 71	
1971 102C		5627	USSR	29 NOV	4 DEC 71	
1971 103A	COSMOS 460	5623	USSR	30 NOV	5 MAR 80	
1971 103B		5629	USSR	30 NOV	4 MAY 80	

DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 103C	INTERCOSMOS 5	5630	USSR	30 NOV	21 NOV 72	AT*
1971 104A		5641	USSR	2 DEC	7 APR 72	
1971 104B		5642	USSR	2 DEC	2 MAR 72	
1971 104C		5645	USSR	2 DEC	13 DEC 71	
1971 105A	COSMOS 461	5643	USSR	2 DEC	21 FEB 79	
1971 105B		5644	USSR	2 DEC	29 APR 79	
1971 105C		5647	USSR	2 DEC	3 APR 72	
1971 105D		5648	USSR	2 DEC	3 APR 72	
1971 106A	COSMOS 462	5646	USSR	3 DEC	4 APR 75	
1971 106B		5649	USSR	3 DEC	2 FEB 72	
1971 106C		5650	USSR	3 DEC	5 JAN 72	
1971 106D		5651	USSR	3 DEC	9 FEB 72	
1971 106E		5652	USSR	3 DEC	24 DEC 71	
1971 106F		5654	USSR	3 DEC	10 FEB 72	
1971 106G		5655	USSR	3 DEC	31 MAR 72	
1971 106H		5656	USSR	3 DEC	24 DEC 71	
1971 106J		5658	USSR	3 DEC	19 DEC 71	
1971 106K		5659	USSR	3 DEC	18 FEB 72	
1971 106L		5660	USSR	3 DEC	20 MAR 72	
1971 106M		5664	USSR	3 DEC	11 DEC 71	
1971 106N		5665	USSR	3 DEC	11 DEC 71	
1971 106P		5666	USSR	3 DEC	9 MAR 72	
1971 106Q		5668	USSR	3 DEC	26 JAN 72	
1971 106R		5672	USSR	3 DEC	13 DEC 71	
1971 106S		5673	USSR	3 DEC	18 MAR 72	
1971 106T		5793	USSR	3 DEC	2 MAR 72	
1971 106U		5799	USSR	3 DEC	18 MAR 72	
1971 106V		5800	USSR	3 DEC	8 MAR 72	
1971 106W		5801	USSR	3 DEC	6 FEB 73	
1971 106X		5802	USSR	3 DEC	29 OCT 72	
1971 106Y		5803	USSR	3 DEC	26 FEB 72	
1971 106Z		5831	USSR	3 DEC	16 MAR 72	
1971 105AA		5832	USSR	3 DEC	15 MAR 72	
1971 105AB		5833	USSR	3 DEC	25 FEB 72	
1971 106AC		5834	USSR	3 DEC	19 MAR 72	
1971 106AD		5866	USSR	3 DEC	11 JUL 72	
1971 106AE	COSMOS 463	5867	USSR	3 DEC	22 MAR 72	
1971 107A		5661	USSR	6 DEC	11 DEC 71	
1971 107B		5662	USSR	6 DEC	11 DEC 71	
1971 107C		5663	USSR	6 DEC	9 DEC 71	
1971 107D	COSMOS 464	5669	USSR	6 DEC	15 DEC 71	
1971 108A		5670	USSR	10 DEC	16 DEC 71	
1971 108B		5671	USSR	10 DEC	24 DEC 71	
1971 108C		5674	USSR	10 DEC	27 DEC 71	
1971 109D	ARIEL 4	5684	USSR	10 DEC	17 DEC 71	
1971 109E		5686	USSR	10 DEC	19 DEC 71	
1971 109A		5675	UK	11 DEC	12 DEC 78	
1971 109B		5676	US	11 DEC	9 AUG 78	
1971 109C		5677	US	11 DEC	18 JAN 73	
1971 109D		5979	US	11 DEC	20 OCT 72	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1971 LAUNCHES (CONT.)						
1971 112A	COSMOS 466	5687	USSR	16 DEC	27 DEC 71	
1971 112B		5688	USSR	16 DEC	21 DEC 71	
1971 112C		5725	USSR	16 DEC	3 JAN 72	
1971 112D		5726	USSR	16 DEC	31 DEC 71	
1971 113A	COSMOS 467	5704	USSR	17 DEC	18 APR 72	
1971 113B		5706	USSR	17 DEC	17 FEB 72	
1971 115A	MOLNIYA 1-19	5712	USSR	19 DEC	13 APR 77	
1971 115B		5713	USSR	19 DEC	22 SEP 77	
1971 115C		5708	USSR	19 DEC	26 JAN 72	
1971 115D		5710	USSR	19 DEC	27 JAN 72	
1971 117B		5737	USSR	25 DEC	9 FEB 72	
1971 117C		5738	USSR	25 DEC	7 JAN 72	
1971 119A		5727	USSR	27 DEC	6 JAN 72	
1971 119B	COSMOS 470	5728	USSR	27 DEC	30 DEC 71	
1971 118C		5740	USSR	27 DEC	6 JAN 72	
1971 118D		5741	USSR	27 DEC	6 JAN 72	
1971 118E		5742	USSR	27 DEC	7 JAN 72	
1971 117C		5962	USSR	27 DEC	19 FEB 78	
1971 119D		6163	USSF	27 DEC	2 OCT 73	
1971 119E		6190	USSR	27 DEC	25 OCT 77	
1971 120E		9800	USSR	29 DEC	24 APR 84	
1972 LAUNCHES						
1972 001A	COSMOS 471	5764	USSR	12 JAN	25 JAN 72	
1972 001B		5765	USSR	12 JAN	20 JAN 72	
1972 001C		5767	USSR	12 JAN	15 JAN 72	
1972 001D		5773	USSR	12 JAN	24 JAN 72	
1972 001E		5774	USSR	12 JAN	24 JAN 72	
1972 001F		5905	USSR	12 JAN	26 JAN 72	
1972 001G		5812	USSR	12 JAN	26 JAN 72	
1972 002A		5769	US	20 JAN	29 FEB 72	
1972 002B		5770	US	20 JAN	23 JAN 72	
1972 002C		5771	US	20 JAN	23 JAN 72	
1972 002D		5772	US	20 JAN	17 APR 79	
1972 004A	COSMOS 472	5804	USSR	25 JAN	18 AUG 72	
1972 004B		5805	USSR	25 JAN	6 MAY 72	
1972 005A	HEOS-A2	5814	ESRO	31 JAN	2 AUG 74	
1972 005B		5815	US	31 JAN	27 SEP 78	
1972 005C		5817	US	31 JAN	1 SEP 74	
1972 005D		5819	US	31 JAN	8 JUN 75	
1972 005E		5819	US	31 JAN	2 SEP 75	
1972 006A	COSMOS 473	5821	USSR	3 FEB	15 FEB 72	
1972 006B		5822	USSR	3 FEB	11 FEB 72	
1972 007A	LUNA 20	5835	USSR	14 FEB	25 FEB 72	AP*
1972 007C		5837	USSR	14 FEB	17 FEB 72	
1972 007D		5838	USSR	14 FEB	17 FEB 72	
1972 007E		5839	USSR	14 FEB	21 FEB 72	R*
1972 008A	COSMOS 474	5839	USSR	16 FEB	29 FEB 72	
1972 008B		5840	USSR	16 FEB	23 FEB 72	

INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		NOTES	
NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)					
COSMOS 476	1972 008C	5848	USSR	16 FEB	29 FEB 72
	1972 008D	5849	USSR	16 FEB	28 FEB 72
	1972 008E	5850	USSR	16 FEB	1 MAR 72
	1972 010C	5855	US	1 MAR	3 MAR 72
	1972 011A	5852	USSR	1 MAR	23 OCT 91
COSMOS 477	1972 011C	20128	USSR	1 MAR	13 JAN 90
	1972 012C	5878	US	3 MAR	18 AUG 72
	1972 013A	5862	USSR	4 MAR	16 MAR 72
	1972 013B	5863	USSR	4 MAR	10 MAR 72
	1972 013C	5864	USSR	4 MAR	5 MAR 72
TD-1A	1972 013D	5865	USSR	4 MAR	5 MAR 72
	1972 013E	5862	USSR	4 MAR	23 MAR 72
	1972 013F	5883	USSR	4 MAR	17 MAR 72
	1972 014A	5879	ESRO	12 MAR	9 JAN 80
	1972 014B	5880	US	12 MAR	9 OCT 80
COSMOS 478	1972 014C	5881	ESRO	12 MAR	22 MAY 72
	1972 014D	5884	ESRO	12 MAR	15 NOV 75
	1972 014E	5932	ESRO	12 MAR	27 OCT 75
	1972 015A	5885	USSR	15 MAR	28 MAR 72
	1972 015B	5886	USSR	15 MAR	21 MAR 72
COSMOS 479	1972 015C	5887	USSR	15 MAR	17 MAR 72
	1972 015D	5909	USSR	15 MAR	28 MAR 72
	1972 015E	5910	USSR	15 MAR	30 MAR 72
	1972 015F	5915	USSR	15 MAR	30 MAR 72
	1972 016A	5888	US	17 MAR	11 APR 72
COSMOS 481	1972 017A	5894	USSR	22 MAR	13 APR 80
	1972 017B	5895	USSR	22 MAR	12 MAY 80
	1972 017C	59J1	USSR	22 MAR	26 NOV 72
	1972 017D	5902	USSR	22 MAR	1 NOV 72
	1972 017E	5911	USSR	22 MAR	5 NOV 72
VENERA 8	1972 020A	5906	USSR	25 MAR	2 SEP 72
	1972 020B	5908	USSR	25 MAR	11 JUN 72
	1972 021A	5912	USSR	27 MAR	22 JUL 72
	1972 021B	5913	USSR	27 MAR	29 MAR 72
	1972 021C	5914	USSR	27 MAR	29 MAR 72
COSMOS 482	1972 023A	5919	USSR	31 MAR	5 MAY 81
	1972 023B	5920	USSR	31 MAR	1 APR 72
	1972 023C	5921	USSR	27 MAR	2 APR 72
	1972 023D	5923	USSR	31 MAR	20 FEB 83
	1972 024A	5924	USSR	3 APR	15 APR 72
COSMOS 483	1972 024B	5925	USSR	3 APR	11 APR 72
	1972 024C	5926	USSR	3 APR	12 APR 72
	1972 024D	5943	USSR	3 APR	19 APR 72
	1972 024E	5944	USSR	3 APR	18 APR 72
	1972 025A	5927	USSR	4 APR	30 JAN 74
MOLNIYA 1-20 SRET 1	1972 025B	5928	FRANCE	4 APR	20 FEB 74
	1972 025C	5929	USSR	4 APR	26 APR 72
	1972 025D	5930	USSR	4 APR	8 MAY 72
	1972 025E	5931	USSR	4 APR	10 APR 72
	1972 025F	5935	USSR	4 APR	10 APR 72

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 0256	COSMOS 484	5940	USSR	4 APR	8 MAR 74	
1972 026A		5933	USSR	6 APR	18 APR 72	
1972 026B		5934	USSR	6 APR	8 APR 72	
1972 026C		6002	USSR	6 APR	18 APR 72	
1972 027A	INTERCOSMOS 6	5936	USSR	7 APR	11 APR 72	
1972 027B		5937	USSR	7 APR	10 APR 72	
1972 027C		5938	USSR	11 APR	30 AUG 72	
1972 028A		5939	USSR	11 APR	16 JUN 72	
1972 028B	COSMOS 485	5942	USSR	14 APR	11 MAY 72	
1972 029B		5946	USSR	14 APR	17 MAY 72	
1972 029C		5949	USSR	14 APR	19 APR 72	
1972 029D		6003	USSR	14 APR	1 JUN 72	
1972 029E	COSMOS 486	5945	USSR	14 APR	27 APR 72	
1972 030A		5947	USSR	14 APR	17 APR 72	
1972 030B		5948	USSR	14 APR	22 APR 72	
1972 030C		6010	USSR	14 APR	27 APR 72	
1972 030D	APOLLO 16	6011	USSR	14 APR	26 APR 72	
1972 030E		6012	USSR	14 APR	28 APR 72	
1972 030F		6000	US	16 APR	27 APR 72	
1972 031A		6001	US	16 APR	19 APR 72	
1972 031B	APOLLO 16 SUBSATELLITE	6009	US	16 APR	29 MAY 72	
1972 031D		6202	US	19 APR	12 MAY 72	
1972 032A		6006	USSR	21 APR	24 SEP 72	
1972 033A		6007	USSR	21 APR	3 JUL 72	
1972 033B	COSMOS 487	6013	USSR	21 APR	29 APR 72	
1972 033C		6016	USSR	5 MAY	18 MAY 72	
1972 034A		6017	USSR	5 MAY	11 MAY 72	
1972 034B		6018	USSR	5 MAY	7 MAY 72	
1972 034C	COSMOS 488	6023	USSR	5 MAY	20 MAY 72	
1972 034D		6024	USSR	5 MAY	23 MAY 72	
1972 034E		6025	USSR	5 MAY	20 MAY 72	
1972 034F		6026	USSR	5 MAY	20 MAY 72	
1972 034G	COSMOS 490	6027	USSR	5 MAY	19 MAY 72	
1972 034H		6021	USSR	17 MAY	19 MAY 72	
1972 036A		6022	USSR	17 MAY	29 MAY 72	
1972 036B		6039	USSR	17 MAY	23 MAY 72	
1972 036C	MOLNIYA 2-2	6040	USSR	17 MAY	30 MAY 72	
1972 036D		6031	USSR	19 MAY	6 JUN 72	
1972 037A		6023	USSR	19 MAY	22 MAR 77	
1972 037B		6029	USSR	19 MAY	8 JUN 72	
1972 037C	COSMOS 491	6030	USSR	19 MAY	9 JUN 72	
1972 037D		6032	USSR	19 MAY	6 JUN 72	
1972 037E		6033	USSR	19 MAY	26 MAY 72	
1972 037F		6034	USSR	19 MAY	1 JUN 72	
1972 037G	COSMOS 491	6035	USSR	19 MAY	1 JUN 77	
1972 038A		6036	USSR	25 MAY	8 JUN 72	
1972 038B		6036	USSR	25 MAY	30 MAY 72	
1972 038C		6038	USSR	25 MAY	29 MAY 72	
1972 038D	1972 039E	6046	USSR	25 MAY	9 JUN 72	
1972 039E		6047	USSR	25 MAY	11 JUN 72	

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DECAYED OBJECTS

INTEK- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 038F		6048	USSR	25 MAY	10 JUN 72	
1972 039A		6037	US	25 MAY	4 JUN 72	
1972 040A	COSMOS 492	6049	USSR	9 JUN	22 JUN 72	
1972 040B		6050	USSR	9 JUN	18 JUN 72	
1972 040C		6055	USSR	9 JUN	24 JUN 72	
1972 040D		6057	USSR	9 JUN	27 JUN 72	
1972 040E		6064	USSR	9 JUN	27 JUN 72	
1972 042A	COSMOS 493	6053	USSR	21 JUN	3 JUL 72	
1972 042B		6054	USSR	21 JUN	25 JUN 72	
1972 042C		6056	USSR	21 JUN	23 JUN 72	
1972 043E		6162	USSR	23 JUN	23 MAR 82	
1972 044A	COSMOS 495	6060	USSR	23 JUN	6 JUL 72	
1972 044B		6062	USSR	23 JUN	29 JUN 72	
1972 044C		6088	USSR	23 JUN	6 JUL 72	
1972 044D		6089	USSR	23 JUN	8 JUL 72	
1972 044E		6093	USSR	23 JUN	7 JUL 72	
1972 045A	COSMOS 496	6066	USSR	26 JUN	2 JUL 72	
1972 045B		6067	USSR	26 JUN	2 JUL 72	
1972 045C		6083	USSR	26 JUN	4 JUL 72	
1972 046A	PROGNOZ 2	6069	USSR	29 JUN	15 DEC 82	
1972 046B		6069	USSR	29 JUN	1 AUG 72	
1972 046C		6070	USSR	29 JUN	13 AUG 72	
1972 046D		6071	USSR	29 JUN	19 JUL 72	
1972 046E		6074	USSR	29 JUN	4 JUL 72	
1972 047A	INTERCOSMOS 7	6075	USSR	30 JUN	5 OCT 72	
1972 047B		6078	USSR	30 JUN	29 SEP 72	
1972 047C		6081	USSR	30 JUN	1 SEP 72	
1972 048A	COSMOS 497	6076	USSR	30 JUN	7 NOV 73	
1972 048B		6077	USSR	30 JUN	17 MAR 73	
1972 048C		6082	USSR	30 JUN	1 JAN 76	
1972 050A	COSMOS 498	6086	USSR	5 JUL	25 NOV 72	
1972 050B		6087	USSR	5 JUL	27 SEP 72	
1972 051A	COSMOS 499	6090	USSR	6 JUL	17 JUL 72	
1972 051B		6091	USSR	6 JUL	10 JUL 72	
1972 051C		6092	USSR	6 JUL	10 JUL 72	
1972 051D		6112	USSR	6 JUL	19 JUL 72	
1972 051E		6113	USSR	6 JUL	20 JUL 72	
1972 052A		6094	US	7 JUL	13 SEP 72	
1972 052B		6095	US	7 JUL	9 JUL 72	
1972 052C		6096	US	7 JUL	6 MAY 78	
1972 053A	COSMOS 500	6097	USSR	10 JUL	29 MAR 80	
1972 053B		6098	USSR	10 JUL	27 APR 80	
1972 053C		6101	USSR	10 JUL	25 MAR 73	
1972 053D		6102	USSR	10 JUL	15 APR 73	
1972 053E		6164	USSR	10 JUN	29 MAR 73	
1972 053F		6174	USSR	10 JUN	14 APR 73	
1972 054A	COSMOS 501	6099	USSR	12 JUL	9 MAY 74	
1972 054B		6100	USSR	12 JUL	10 JUN 73	
1972 054C		6103	USSR	12 JUL	5 SEP 72	
1972 054D		6104	USSR	12 JUL	3 AUG 72	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 054E		6107	USSR	12 JUL	7 AUG 72	
1972 054F		6108	USSR	12 JUL	6 AUG 72	
1972 054G		6109	USSR	12 JUL	25 JUL 72	
1972 054H		6110	USSR	12 JUL	25 JUL 72	
1972 054J		6133	USSR	12 JUL	18 SEP 72	
1972 055A	COSMOS 502	6105	USSR	13 JUL	25 JUL 72	
1972 055B		6106	USSR	13 JUL	18 JUL 72	
1972 055C		6111	USSR	13 JUL	15 JUL 72	
1972 055D		6123	USSR	13 JUL	25 JUL 72	
1972 055E		6129	USSR	13 JUL	26 JUL 72	
1972 055A	COSMOS 503	6114	USSR	19 JUL	1 AUG 72	
1972 055B		6115	USSR	19 JUL	27 JUL 72	
1972 056C		6116	USSR	19 JUL	23 JUL 72	
1972 056D		6132	USSR	19 JUL	1 AUG 72	
1972 056E		6134	USSR	19 JUL	3 AUG 72	
1972 058B		6127	US	23 JUL	12 FEB 77	
1972 058D		7833	US	23 JUL	29 JUN 81	
1972 053E		7834	US	23 JUL	9 MAY 81	
1972 058F		7835	US	23 JUL	23 FEB 77	
1972 058H		7837	US	23 JUL	25 SEP 81	
1972 058J		7844	US	23 JUL	27 MAR 82	
1972 058AC		7856	US	23 JUL	9 MAY 79	
1972 058AE		7858	US	23 JUL	28 DEC 81	
1972 058AF		7859	US	23 JUL	9 APR 80	
1972 058AG		7860	US	23 JUL	18 JUL 79	
1972 058AH		7861	US	23 JUL	30 JUL 79	
1972 058AJ		7862	US	23 JUL	11 JUL 80	
1972 058AK		7863	US	23 JUL	2 NOV 79	
1972 058AL		7864	US	23 JUL	14 AUG 81	
1972 053AU		7372	US	23 JUL	2 MAR 82	
1972 058AV		7873	US	23 JUL	31 DEC 78	
1972 058A7		7882	US	23 JUL	13 NOV 80	
1972 053BA		7883	US	23 JUL	4 NOV 81	
1972 058BC		7884	US	23 JUL	23 NOV 75	
1972 058BD		7886	US	23 JUL	3 MAY 80	
1972 058BD		7887	US	23 JUL	17 MAR 80	
1972 058BH		7891	US	23 JUL	25 SEP 81	
1972 058BL		7894	US	23 JUL	25 APR 80	
1972 058BM		7895	US	23 JUL	24 OCT 79	
1972 058BN		7896	US	23 JUL	27 NOV 79	
1972 058BP		7897	US	23 JUL	12 APR 80	
1972 058BQ		7898	US	23 JUL	9 JUL 81	
1972 058BR		7899	US	23 JUL	23 JUL 81	
1972 058BT		7903	US	23 JUL	16 JUN 79	
1972 058BU		7909	US	23 JUL	6 DEC 79	
1972 058BV		7914	US	23 JUL	28 JUN 81	
1972 058BW		7923	US	23 JUL	9 MAY 80	
1972 058BX		7927	US	23 JUL	16 JUL 80	
1972 058CA		7932	US	23 JUL	22 MAY 82	
1972 058CF		7935	US	23 JUL	7 SEP 80	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 058CR		7961	US	23 JUL	12 JAN 80	
1972 058CS		7966	US	23 JUL	5 DEC 81	
1972 058CU		7973	US	23 JUL	14 NOV 78	
1972 058CW		7975	US	23 JUL	31 MAR 80	
1972 058CY		7977	US	23 JUL	14 JAN 79	
1972 058CZ		7978	US	23 JUL	9 MAR 80	
1972 058D8		7980	US	23 JUL	18 FEB 79	
1972 058DC		8001	US	23 JUL	18 JUL 78	
1972 058DD		8002	US	23 JUL	27 AUG 80	
1972 058DE		8003	US	23 JUL	26 JAN 79	
1972 058DH		8082	US	23 JUL	11 JAN 80	
1972 058DL		8085	US	23 JUL	23 DEC 78	
1972 058DM		8086	US	23 JUL	12 APR 80	
1972 058DN		8087	US	23 JUL	5 MAY 77	
1972 058DP		8088	US	23 JUL	25 MAY 80	
1972 058DQ		8089	US	23 JUL	25 NOV 81	
1972 058DR		8090	US	23 JUL	13 JAN 80	
1972 058DS		8091	US	23 JUL	7 FEB 79	
1972 058DU		8093	US	23 JUL	18 JUL 78	
1972 058DV		8094	US	23 JUL	30 APR 80	
1972 058DX		8096	US	23 JUL	28 JUN 76	
1972 058DY		8097	US	23 JUL	15 NOV 75	
1972 058DZ		8098	US	23 JUL	2 FEB 80	
1972 058EC		8124	US	23 JUL	9 NOV 78	
1972 058ED		8125	US	23 JUL	12 OCT 75	
1972 058EE		8126	US	23 JUL	10 JUN 82	
1972 058EF		8313	US	23 JUL	25 MAR 82	
1972 058EH		8315	US	23 JUL	6 NOV 79	
1972 058EJ		8316	US	23 JUL	12 MAY 81	
1972 058EK		8317	US	23 JUL	6 MAR 81	
1972 058EN		8320	US	23 JUL	15 APR 82	
1972 058EP		8321	US	23 JUL	14 APR 79	
1972 058EQ		8374	US	23 JUL	16 JUN 79	
1972 058ER		8375	US	23 JUL	27 MAY 81	
1972 058ET		8377	US	23 JUL	22 NOV 82	
1972 058EU		8378	US	23 JUL	25 MAR 79	
1972 058EV		8379	US	23 JUL	9 MAR 81	
1972 058EW		8380	US	23 JUL	30 MAR 79	
1972 058EX		8381	US	23 JUL	23 SEP 79	
1972 058EY		8382	US	23 JUL	13 OCT 80	
1972 058EZ		8383	US	23 JUL	9 OCT 79	
1972 058FA		8384	US	23 JUL	7 DEC 79	
1972 058FB		8385	US	23 JUL	13 NOV 78	
1972 058FD		8387	US	23 JUL	16 JUN 79	
1972 058FE		8388	US	23 JUL	25 JUN 81	
1972 058FF		8389	US	23 JUL	19 DEC 80	
1972 058FH		8391	US	23 JUL	30 MAR 80	
1972 058FJ		8392	US	23 JUL	4 NOV 82	
1972 058FK		8393	US	23 JUL	16 MAR 77	
1972 058FL		8408	US	23 JUL	14 APR 79	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECAYED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)							
1972 058FN		8433		US	23 JUL	3 AUG 82	
1972 058FP		8434		US	23 JUL	31 JAN 76	
1972 058FR		8496		US	23 JUL	13 APR 81	
1972 058FT		8498		US	23 JUL	3 NOV 80	
1972 058FU		8499		US	23 JUL	12 NOV 79	
1972 058FV		8500		US	23 JUL	28 JUN 79	
1972 058FW		8501		US	23 JUL	21 NOV 79	
1972 058FX		8502		US	23 JUL	26 SEP 78	
1972 058FY		8503		US	23 JUL	21 MAR 78	
1972 058FZ		8504		US	23 JUL	21 MAR 81	
1972 058GB		8506		US	23 JUL	23 FEB 77	
1972 058GC		8507		US	23 JUL	29 JAN 80	
1972 058GD		8508		US	23 JUL	24 AUG 80	
1972 058GE		8509		US	23 JUL	5 AUG 80	
1972 058GF		8532		US	23 JUL	26 JUL 78	
1972 058GH		8534		US	23 JUL	16 NOV 80	
1972 058GJ		8535		US	23 JUL	16 FEB 79	
1972 058GK		8536		US	23 JUL	22 JAN 78	
1972 058GP		8540		US	23 JUL	2 NOV 77	
1972 058GQ		8541		US	23 JUL	7 JAN 79	
1972 058GS		8543		US	23 JUL	15 MAY 80	
1972 058GV		8568		US	23 JUL	19 AUG 78	
1972 058GX		8570		US	23 JUL	6 OCT 82	
1972 058GY		8571		US	23 JUL	5 MAR 81	
1972 058GZ		8572		US	23 JUL	4 JUL 80	
1972 058HA		8573		US	23 JUL	18 NOV 79	
1972 058HB		8574		US	23 JUL	16 JUN 79	
1972 058HC		8575		US	23 JUL	2 JAN 78	
1972 058HD		8576		US	23 JUL	6 FEB 80	
1972 058HF		8578		US	23 JUL	1 MAY 80	
1972 058HG		8579		US	23 JUL	24 JAN 81	
1972 058HH		8580		US	23 JUL	28 NOV 79	
1972 058HJ		8581		US	23 JUL	8 FEB 80	
1972 058HK		9669		US	23 JUL	24 FEB 79	
1972 058HL		9670		US	23 JUL	8 MAY 82	
1972 058HM		9671		US	23 JUL	14 MAR 80	
1972 058HN		9672		US	23 JUL	2 JUL 78	
1972 058HP		9673		US	23 JUL	16 JUN 79	
1972 058HR		9675		US	23 JUL	23 MAY 79	
1972 058HS		9676		US	23 JUL	28 JUL 81	
1972 058HU		9728		US	23 JUL	10 APR 79	
1972 058HV		9729		US	23 JUL	21 APR 77	
1972 058HW		9788		US	23 JUL	13 APR 81	
1972 058HX		9970		US	23 JUL	10 OCT 80	
1972 058HZ		9972		US	23 JUL	29 JUN 79	
1972 059A	COSMOS 512	6130		USSR	28 JUL	9 AUG 72	
1972 059B		6131		USSR		1 AUG 72	
1972 060A	COSMOS 513	6135		USSR	2 AUG	15 AUG 72	
1972 060B		6136		USSR	2 AUG	9 AUG 72	
1972 060C		6137		USSR	2 AUG	6 AUG 72	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 060D		6143	USSR	2 AUG	20 AUG 72	
1972 060E		6144	USSR	2 AUG	24 AUG 72	
1972 060F		6147	USSR	2 AUG	18 AUG 72	
1972 061A	EXPLORER 46	6142	US	13 AUG	2 NOV 79	
1972 061B		6145	US	13 AUG	5 MAR 79	
1972 061C		6145	US	13 AUG	25 MAY 78	
1972 063A	COSMOS 515	6150	USSR	18 AUG	31 AUG 72	
1972 063B		6151	USSR	18 AUG	23 AUG 72	
1972 063C		6165	USSR	18 AUG	3 SEP 72	
1972 063D		6166	USSR	18 AUG	4 SEP 72	
1972 063E		6171	USSR	18 AUG	2 SEP 72	
1972 064A	DENPA	6152	JAPAN	19 AUG	19 MAY 80	
1972 064B		6332	JAPAN	19 AUG	28 APR 81	
1972 065C		6156	US	21 AUG	7 JAN 82	
1972 066B		6196	USSR	21 AUG	25 SEP 72	
1972 066C		6199	USSR	21 AUG	20 OCT 72	
1972 067A	COSMOS 517	6168	USSR	30 AUG	11 SEP 72	
1972 067B		6169	USSR	30 AUG	3 SEP 72	
1972 067C		6170	USSR	30 AUG	8 SEP 72	
1972 068A		6172	US	1 SEP	30 SEP 72	
1972 070A	COSMOS 518	6186	USSR	15 SEP	24 SEP 72	
1972 070B		6187	USSR	15 SEP	22 SEP 72	
1972 070C		6198	USSR	15 SEP	27 SEP 72	
1972 071A	COSMOS 519	6188	USSR	16 SEP	26 SEP 72	
1972 071B		6189	USSR	16 SEP	24 SEP 72	
1972 071C		6191	USSR	16 SEP	19 SEP 72	
1972 071D		6200	USSR	16 SEP	14 OCT 72	
1972 071E		6201	USSR	16 SEP	30 SEP 72	
1972 072B		6193	USSR	19 SEP	20 OCT 72	
1972 072C		6194	USSR	19 SEP	5 NOV 72	
1972 072D		6195	USSR	19 SEP	30 SEP 72	
1972 073B		6202	US	23 SEP	26 SEP 72	
1972 073C		6203	US	23 SEP	?? FEB 76	
1972 073D		6204	US	23 SEP	?? FEB 76	
1972 073E		6205	US	23 SEP	26 SEP 72	
1972 075A	MOLNIYA 2-3	6208	USSR	30 SEP	12 JAN 78	
1972 075B		6209	USSR	30 SEP	26 OCT 72	
1972 075C		6211	USSR	30 SEP	1 NOV 72	
1972 075D		6303	USSR	30 SEP	21 FEB 78	
1972 075E		6224	US	2 OCT	10 DEC 80	
1972 077A	COSMOS 522	6219	USSR	4 OCT	17 OCT 72	
1972 077B		6220	USSR	4 OCT	14 OCT 72	
1972 077C		6239	USSR	4 OCT	24 OCT 72	
1972 077D		6247	USSR	4 OCT	20 OCT 72	
1972 078A	COSMOS 523	6222	USSR	5 OCT	7 MAR 73	
1972 078B		6223	USSR	5 OCT	7 DEC 72	
1972 078C		6225	USSR	5 OCT	17 NOV 72	
1972 078D		6226	USSR	5 OCT	8 NOV 72	
1972 078E		6239	USSR	5 OCT	17 NOV 72	
1972 078F		6240	USSR	5 OCT	22 NOV 72	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 073G		6241	USSR	5 OCT	12 NOV 72	
1972 073H		6242	USSR	5 OCT	25 OCT 72	
1972 073J		6243	USSR	5 OCT	19 OCT 72	
1972 078K		6244	USSR	5 OCT	12 NOV 72	
1972 078L		6245	USSR	5 OCT	22 OCT 72	
1972 073M		6246	USSR	5 OCT	23 OCT 72	
1972 079A		6227	US	10 OCT	8 JAN 73	
1972 079B		6228	US	10 OCT	12 OCT 72	
1972 080A	COSMOS 524	6229	USSR	11 OCT	25 MAR 73	
1972 080B		6230	USSR	11 OCT	20 DEC 72	
1972 081A	MOLNIYA 1-21	6231	USSR	14 OCT	1 NOV 77	
1972 081B		6232	USSR	14 OCT	4 NOV 72	
1972 081C		6233	USSR	14 OCT	16 NOV 72	
1972 081D		6234	USSR	14 OCT	14 NOV 72	
1972 081E		6304	USSR	14 OCT	16 MAR 75	
1972 083A	COSMOS 525	6248	USSR	18 OCT	29 OCT 72	
1972 083B		6249	USSR	18 OCT	22 OCT 72	
1972 083C		6258	USSR	18 OCT	1 NOV 72	
1972 083D		6259	USSR	18 OCT	29 OCT 72	
1972 084A	COSMOS 526	6254	USSR	25 OCT	8 APR 73	
1972 084B		6255	USSR	25 OCT	8 JAN 73	
1972 086A	COSMOS 527	6260	USSR	31 OCT	13 NOV 72	
1972 086B		6261	USSR	31 OCT	8 NOV 72	
1972 086C		6263	USSR	31 OCT	3 NOV 72	
1972 086D		6260	USSR	31 OCT	15 NOV 72	
1972 085E		6281	USSR	31 OCT	18 NOV 72	
1972 086F		6284	USSR	31 OCT	18 NOV 72	
1972 088A	COSMOS 536	6272	USSR	3 NOV	20 JUL 80	
1972 088B		6273	USSR	3 NOV	19 JUL 80	
1972 088C		6274	USSR	3 NOV	19 DEC 73	
1972 088D		6700	USSR	3 NOV	28 FEB 83	
1972 090U		6279	US	10 NOV	7 MAY 73	
1972 091A	EXPLORER 48	6262	US	15 NOV	20 AUG 80	
1972 091B		6800	US	15 NOV	1 MAY 79	
1972 092A	ESRO IV	6285	ESRO	22 NOV	15 APR 74	
1972 092B		6236	US	22 NOV	9 JUL 73	
1972 093A	COSMOS 537	6237	USSR	25 NOV	7 DEC 72	
1972 093B		6288	USSR	25 NOV	2 DEC 72	
1972 094A	INTERCOSMOS 8	6291	USSR	30 NOV	2 MAR 73	
1972 094B		6292	USSR	30 NOV	12 JAN 73	
1972 094C		6293	USSR	30 NOV	2 JAN 73	
1972 095A	MOLNIYA 1-22	6294	USSR	2 DEC	11 FEB 74	
1972 095B		6295	USSR	2 DEC	10 JAN 73	
1972 095C		6296	USSR	2 DEC	2 FEB 73	
1972 095D		6297	USSR	2 DEC	12 DEC 72	
1972 095E		6298	USSR	2 DEC	11 DEC 72	
1972 095F		6322	USSR	2 DEC	25 FEB 75	
1972 096A	APOLLO 17	6300	US	7 DEC	19 DEC 72	AJ*
1972 096B		6301	US	7 DEC	10 DEC 72	G*
1972 096C	LUNAR MODULE	6307	US	7 DEC	15 DEC 72	AM*

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1972 LAUNCHES (CONT.)						
1972 098A	MOLNIYA 2-4	6308	USSR	12 DEC	22 JAN 75	
1972 098B		6309	USSR	12 DEC	13 JAN 73	
1972 098C		6310	USSR	12 DEC	19 JAN 73	
1972 098D		6341	USSR	12 DEC	7 OCT 74	
1972 099A	COSMOS 538	6311	USSR	14 DEC	27 DEC 72	
1972 099B		6312	USSR	14 DEC	22 DEC 72	
1972 099C		6314	USSR	14 DEC	18 DEC 72	
1972 099D		6325	USSR	14 DEC	4 JAN 73	
1972 099E		6331	USSR	14 DEC	4 JAN 73	
1972 100A	AEROS	6315	FRG	16 DEC	22 AUG 73	
1972 100B		6316	US	16 DEC	25 FEB 73	
1972 103A		6321	US	21 DEC	23 JAN 73	
1972 105A	COSMOS 541	6326	USSR	27 DEC	8 JAN 73	
1972 105B		6327	USSR	27 DEC	12 JAN 73	
1972 105C		6336	USSR	27 DEC	11 JAN 73	
1972 105D		6337	USSR	27 DEC	9 JAN 73	
1972 105E		6338	USSR	27 DEC	12 JAN 73	
1972 105F		6342	USSR	27 DEC	15 JAN 73	
1972 106A	COSMOS 542	6328	USSR	28 DEC	9 OCT 83	
1972 106B		6329	USSR	28 DEC	23 JUN 88	
1973 LAUNCHES						
1973 001A	LUNA 21	6333	USSR	8 JAN	15 JAN 73	R*
1973 001B		6334	USSR	8 JAN	12 JAN 73	
1973 001C		6335	USSR	8 JAN	13 JAN 73	
1973 002A	COSMOS 543	6339	USSR	11 JAN	24 JAN 73	
1973 002B		6340	USSR	11 JAN	22 JAN 73	
1973 002C		6346	USSR	11 JAN	28 JAN 73	
1973 002D		6347	USSR	11 JAN	25 JAN 73	
1973 003A	COSMOS 544	6343	USSR	20 JAN	15 JUN 80	
1973 003B		6344	USSR	20 JAN	18 MAY 80	
1973 003C		6345	USSR	20 JAN	14 OCT 75	
1973 003D		6352	USSR	20 JAN	21 MAR 75	
1973 004A	COSMOS 545	6348	USSR	24 JAN	31 JUL 73	
1973 004B		6349	USSR	24 JAN	21 APR 77	
1973 005B		6351	USSR	26 JAN	2 MAR 88	
1973 006A	COSMOS 547	6353	USSR	1 FEB	13 FEB 73	
1973 006B		6354	USSR	1 FEB	9 FEB 73	
1973 006C		6355	USSR	1 FEB	2 FEB 73	
1973 007A	MOLNIYA 1-23	6356	USSR	3 FEB	23 OCT 77	
1973 007B		6357	USSR	3 FEB	13 MAR 73	
1973 007C		6358	USSR	3 FEB	18 MAR 73	
1973 007D		6363	USSR	3 FEB	10 MAR 73	
1973 007E		6368	USSR	3 FEB	4 AUG 78	
1973 008A	COSMOS 548	6359	USSR	8 FEB	21 FEB 73	
1973 008B		6360	USSR	8 FEB	16 FEB 73	
1973 008C		6361	USSR	8 FEB	9 FEB 73	
1973 008D		6367	USSR	8 FEB	25 FEB 73	
1973 008E		6369	USSR	8 FEB	23 FEB 73	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 008F		6370	USSR	6 FEB	26 FEB 73	
1973 008G		6371	USSR	8 FEB	23 FEB 73	
1973 009B		6365	USSR	15 FEB	22 MAR 73	
1973 009C		6366	USSR	15 FEB	23 MAR 73	
1973 010A	COSMOS 549	6373	USSR	28 FEB	29 JUN 80	
1973 010B		6374	USSR	28 FEB	17 SEP 80	
1973 010C		6375	USSR	28 FEB	24 JUN 74	
1973 011A	COSMOS 550	6376	USSR	1 MAR	11 MAR 73	
1973 011B		6377	USSR	1 MAR	9 MAR 73	
1973 011C		6384	USSR	1 MAR	18 MAR 73	
1973 011D		6385	USSR	1 MAR	12 MAR 73	
1973 011E		6386	USSR	1 MAR	12 MAR 73	
1973 011F		6387	USSR	1 MAR	12 MAR 73	
1973 012A	COSMOS 551	6378	USSR	6 MAR	20 MAR 73	
1973 012B		6379	USSR	6 MAR	13 MAR 73	
1973 012C		6381	USSR	6 MAR	7 MAR 73	
1973 012D		6389	USSR	6 MAR	22 MAR 73	
1973 012E		6390	USSR	6 MAR	19 MAR 73	
1973 013B		6383	US	6 MAR	4 JUN 74	
1973 014A		6382	US	9 MAR	19 MAY 73	
1973 014B		6383	US	9 MAR	11 MAR 73	
1973 016A	COSMOS 552	6394	USSR	22 MAR	3 APR 73	
1973 016B		6395	USSR	22 MAR	30 MAR 73	
1973 016C		6397	USSR	22 MAR	9 APR 73	
1973 017A	SALYUT 2	6398	USSR	3 APR	28 MAY 73	
1973 017B		6399	USSR	3 APR	5 APR 73	
1973 017C		6400	USSR	3 APR	10 APR 73	
1973 017D		6401	USSR	3 APR	9 APR 73	
1973 017E		6402	USSR	3 APR	12 APR 73	
1973 017F		6403	USSR	3 APR	24 APR 73	
1973 017G		6404	USSR	3 APR	30 APR 73	
1973 017H		6405	USSR	3 APR	6 APR 73	
1973 017J		6406	USSR	3 APR	26 APR 73	
1973 017K		6407	USSR	3 APR	22 APR 73	
1973 017L		6408	USSR	3 APR	8 APR 73	
1973 017M		6409	USSR	3 APR	15 APR 73	
1973 017N		6410	USSR	3 APR	6 APR 73	
1973 017P		6411	USSR	3 APR	6 APR 73	
1973 017Q		6412	USSR	3 APR	8 APR 73	
1973 017R		6413	USSR	3 APR	8 APR 73	
1973 017S		6414	USSR	3 APR	6 APR 73	
1973 017T		6415	USSR	3 APR	12 APR 73	
1973 017U		6416	USSR	3 APR	6 APR 73	
1973 017V		6417	USSR	3 APR	9 APR 73	
1973 017W		6422	USSR	3 APR	9 APR 73	
1973 017X		6423	USSR	3 APR	10 APR 73	
1973 017Y		6424	USSR	3 APR	10 APR 73	
1973 017Z		6429	USSR	3 APR	13 MAY 73	
1973 017AA		6430	USSR	3 APR	12 MAY 73	
1973 017AB		6431	USSR	3 APR	17 APR 73	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 018A	MOLNIYA 2-5	6418	USSR	5 APR	6 JAN 79	
1973 018B		6419	USSR	5 APR	24 APR 73	
1973 018C		6420	USSR	5 APR	30 APR 73	
1973 018D		6439	USSR	5 APR	5 DEC 79	
1973 019C	COSMOS 553	6426	US	6 APR	4 NOV 74	
1973 020A		6427	USSR	12 APR	11 NOV 73	
1973 020B		6428	USSR	12 APR	7 AUG 73	
1973 021A		6432	USSR	19 APR	27 MAY 73	
1973 021B	COSMOS 554	6434	USSR	19 APR	26 APR 73	
1973 021C		6436	USSR	19 APR	25 APR 73	
1973 021D		6442	USSR	19 APR	30 APR 73	
1973 021E		6443	USSR	19 APR	1 MAY 73	
1973 021F		6448	USSR	19 APR	24 JUN 73	
1973 021G		6449	USSR	19 APR	21 MAY 73	
1973 021H		6450	USSR	19 APR	16 MAY 73	
1973 021J		6451	USSR	19 APR	24 MAY 73	
1973 021K		6452	USSR	19 APR	16 MAY 73	
1973 021L		6453	USSR	19 APR	20 MAY 73	
1973 021M		6454	USSR	19 APR	27 MAY 73	
1973 021N		6455	USSR	19 APR	12 MAY 73	
1973 021P		6456	USSR	19 APR	17 MAY 73	
1973 021Q		6457	USSR	19 APR	16 MAY 73	
1973 021R		6458	USSR	19 APR	9 JUN 73	
1973 021S		6459	USSR	19 APR	16 MAY 73	
1973 021T		6460	USSR	19 APR	12 MAY 73	
1973 021U		6461	USSR	19 APR	20 MAY 73	
1973 021V		6462	USSR	19 APR	12 MAY 73	
1973 021W		6463	USSR	19 APR	21 MAY 73	
1973 021X		6464	USSR	19 APR	18 MAY 73	
1973 021Y		6465	USSR	19 APR	27 MAY 73	
1973 021Z		6466	USSR	19 APR	4 JUN 73	
1973 021AA		6467	USSR	19 APR	28 MAY 73	
1973 021AB		6468	USSR	19 APR	6 JUL 73	
1973 021AC		6469	USSR	19 APR	29 JAN 74	
1973 021AD		6470	USSR	19 APR	3 JUL 73	
1973 021AE		6471	USSR	19 APR	29 NOV 73	
1973 021AF		6472	USSR	19 APR	22 MAY 73	
1973 021AG		6473	USSR	19 APR	30 MAY 73	
1973 021AH		6474	USSR	19 APR	17 MAY 73	
1973 021AJ		6475	USSR	19 APR	1 JUN 73	
1973 021AK		6476	USSR	19 APR	19 MAY 73	
1973 021AL		6477	USSR	19 APR	16 MAY 73	
1973 021AM		6478	USSR	19 APR	13 MAY 73	
1973 021AN		6479	USSR	19 APR	27 MAY 73	
1973 021AP		6480	USSR	19 APR	15 MAY 73	
1973 021AQ		6481	USSR	19 APR	18 MAY 73	
1973 021AR		6482	USSR	19 APR	19 MAY 73	
1973 021AS		6483	USSR	19 APR	15 MAY 73	
1973 021AT		6484	USSR	19 APR	8 JUN 73	
1973 021AU		6485	USSR	19 APR	19 MAY 73	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 021AV		6486	USSR	19 APR	19 MAY 73	
1973 021AH		6487	USSR	19 APR	18 MAY 73	
1973 021AX		6488	USSR	19 APR	21 MAY 73	
1973 021AY		6489	USSR	19 APR	13 JUN 73	
1973 021AZ		6490	USSR	19 APR	14 AUG 73	
1973 0216A		6491	USSR	19 APR	14 JUL 73	
1973 0216H		6492	USSR	19 APR	30 MAY 73	
1973 0215C		6493	USSR	19 APR	7 JUL 73	
1973 0218D		6494	USSR	19 APR	27 MAY 73	
1973 0218E		6495	USSR	19 APR	25 MAY 73	
1973 0218F		6496	USSR	19 APR	9 JUN 73	
1973 0218G		6497	USSR	19 APR	27 MAY 73	
1973 0218H		6500	USSR	19 APR	27 MAY 73	
1973 0218J		6501	USSR	19 APR	25 JUN 73	
1973 0218K		6502	USSR	19 APR	2 JAN 74	
1973 0218L		6503	USSR	19 APR	1 JUL 73	
1973 0218M		6504	USSR	19 APR	18 MAY 73	
1973 0218N		6505	USSR	19 APR	21 MAY 73	
1973 0218P		6506	USSR	19 APR	17 MAY 73	
1973 0218Q		6507	USSR	19 APR	15 MAY 73	
1973 0218R		6508	USSR	19 APR	19 MAY 73	
1973 0218S		6509	USSR	19 APR	18 JUN 73	
1973 0219T		6510	USSR	19 APR	6 JUN 73	
1973 0218U		6511	USSR	19 APR	12 AUG 73	
1973 0218V		6512	USSR	19 APR	26 MAY 73	
1973 0218W		6513	USSR	19 APR	26 MAY 73	
1973 0218X		6514	USSR	19 APR	18 MAY 73	
1973 0219Y		6515	USSR	19 APR	28 MAY 73	
1973 0218Z		6516	USSR	19 APR	14 JUN 73	
1973 021CA		6517	USSR	19 APR	26 MAY 73	
1973 021CB		6518	USSR	19 APR	23 MAY 73	
1973 021CC		6519	USSR	19 APR	3 JUL 73	
1973 021CD		6520	USSR	19 APR	25 MAY 73	
1973 021CE		6521	USSR	19 APR	6 JUN 73	
1973 021CF		6522	USSR	19 APR	25 MAY 73	
1973 021CG		6523	USSR	19 APR	22 MAY 73	
1973 021CH		6524	USSR	19 APR	9 JUN 73	
1973 021CJ		6525	USSR	19 APR	16 SEP 73	
1973 021CK		6526	USSR	19 APR	26 MAY 73	
1973 021CL		6527	USSR	19 APR	26 MAY 73	
1973 021CM		6528	USSR	19 APR	26 MAY 73	
1973 021CN		6529	USSR	19 APR	25 MAY 73	
1973 021CP		6530	USSR	19 APR	2 JUN 73	
1973 021CQ		6531	USSR	19 APR	25 JUN 73	
1973 021CR		6532	USSR	19 APR	17 MAY 73	
1973 021CS		6533	USSR	19 APR	22 MAY 73	
1973 021CT		6534	USSR	19 APR	26 MAY 73	
1973 021CU		6535	USSR	19 APR	22 MAY 73	
1973 021CV		6536	USSR	19 APR	30 JUN 73	
1973 021CW		6537	USSR	19 APR	22 MAY 73	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 021CX		6538	USSR	19 APR	25 MAY 73	
1973 021CY		6539	USSR	19 APR	24 MAY 73	
1973 021CZ		6540	USSR	19 APR	31 DEC 73	
1973 021DA		6541	USSR	19 APR	27 MAY 73	
1973 021DB		6542	USSR	19 APR	7 MAY 73	
1973 021DC		6543	USSR	19 APR	7 MAY 73	
1973 021DD		6544	USSR	19 APR	7 MAY 73	
1973 021DE		6545	USSR	19 APR	7 MAY 73	
1973 021DF		6546	USSR	19 APR	7 MAY 73	
1973 021DG		6547	USSR	19 APR	7 MAY 73	
1973 021DH		6548	USSR	19 APR	7 MAY 73	
1973 021DJ		6549	USSR	19 APR	7 MAY 73	
1973 021DK		6550	USSR	19 APR	7 MAY 73	
1973 021DL		6551	USSR	19 APR	7 MAY 73	
1973 021DM		6552	USSR	19 APR	7 MAY 73	
1973 021DN		6553	USSR	19 APR	7 MAY 73	
1973 021DP		6554	USSR	19 APR	7 MAY 73	
1973 021DQ		6555	USSR	19 APR	7 MAY 73	
1973 021DR		6556	USSR	19 APR	7 MAY 73	
1973 021DS		6557	USSR	19 APR	7 MAY 73	
1973 021DT		6558	USSR	19 APR	7 MAY 73	
1973 021DU		6559	USSR	19 APR	7 MAY 73	
1973 021DV		6560	USSR	19 APR	7 MAY 73	
1973 021DW		6561	USSR	19 APR	7 MAY 73	
1973 021DX		6562	USSR	19 APR	7 MAY 73	
1973 021DY		6563	USSR	19 APR	7 MAY 73	
1973 021DZ		6564	USSR	19 APR	7 MAY 73	
1973 021EA		6565	USSR	19 APR	7 MAY 73	
1973 021EB		6566	USSR	19 APR	7 MAY 73	
1973 021EC		6567	USSR	19 APR	7 MAY 73	
1973 021ED		6568	USSR	19 APR	7 MAY 73	
1973 021EE		6569	USSR	19 APR	7 MAY 73	
1973 021EF		6570	USSR	19 APR	7 MAY 73	
1973 021EG		6571	USSR	19 APR	7 MAY 73	
1973 021EH		6572	USSR	19 APR	7 MAY 73	
1973 021EJ		6573	USSR	19 APR	7 MAY 73	
1973 021EK		6574	USSR	19 APR	7 MAY 73	
1973 021EL		6575	USSR	19 APR	7 MAY 73	
1973 021EM		6576	USSR	19 APR	7 MAY 73	
1973 021EN		6577	USSR	19 APR	7 MAY 73	
1973 021EP		6578	USSR	19 APR	7 MAY 73	
1973 021EQ		6579	USSR	19 APR	7 MAY 73	
1973 021ER		6580	USSR	19 APR	7 MAY 73	
1973 021ES		6581	USSR	19 APR	7 MAY 73	
1973 021ET		6582	USSR	19 APR	7 MAY 73	
1973 021EU		6583	USSR	19 APR	7 MAY 73	
1973 021EV		6584	USSR	19 APR	7 MAY 73	
1973 021EW		6585	USSR	19 APR	7 MAY 73	
1973 021EX		6586	USSR	19 APR	7 MAY 73	
1973 021EY		6587	USSR	19 APR	7 MAY 73	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 021EZ		6588	USSR	19 APR	7 MAY 73	
1973 021FA		6589	USSR	19 APR	7 MAY 73	
1973 021FB		6590	USSR	19 APR	7 MAY 73	
1973 021FC		6591	USSR	19 APR	7 MAY 73	
1973 021FD		6592	USSR	19 APR	7 MAY 73	
1973 021FE		6593	USSR	19 APR	7 MAY 73	
1973 021FF		6594	USSR	19 APR	7 MAY 73	
1973 021FG		6595	USSR	19 APR	7 MAY 73	
1973 021FH		6596	USSR	19 APR	7 MAY 73	
1973 021FJ		6597	USSR	19 APR	7 MAY 73	
1973 021FK		6598	USSR	19 APR	7 MAY 73	
1973 021FL		6599	USSR	19 APR	7 MAY 73	
1973 021FM		6600	USSR	19 APR	7 MAY 73	
1973 021FN		6601	USSR	19 APR	7 MAY 73	
1973 021FP		6602	USSR	19 APR	7 MAY 73	
1973 021FQ		6603	USSR	19 APR	7 MAY 73	
1973 021FR		6604	USSR	19 APR	7 MAY 73	
1973 021FS		6605	USSR	19 APR	7 MAY 73	
1973 021FT		6606	USSR	19 APR	7 MAY 73	
1973 021FU		6607	USSR	19 APR	7 MAY 73	
1973 021FV		6608	USSR	19 APR	7 MAY 73	
1973 021FW		6609	USSR	19 APR	7 MAY 73	
1973 021FX		6610	USSR	19 APR	7 MAY 73	
1973 021FY		6611	USSR	19 APR	7 MAY 73	
1973 021FZ		6612	USSR	19 APR	7 MAY 73	
1973 021GA		6613	USSR	19 APR	7 MAY 73	
1973 021G8		6614	USSR	19 APR	7 MAY 73	
1973 021GC		6615	USSR	19 APR	7 MAY 73	
1973 021GD		6616	USSR	19 APR	7 MAY 73	
1973 021GE		6617	USSR	19 APR	7 MAY 73	
1973 021GF		6618	USSR	19 APR	7 MAY 73	
1973 021GG		6619	USSR	19 APR	7 MAY 73	
1973 021GH		6620	USSR	19 APR	7 MAY 73	
1973 021GJ		6621	USSR	19 APR	7 MAY 73	
1973 021GK		6622	USSR	19 APR	7 MAY 73	
1973 021GL		6623	USSR	19 APR	7 MAY 73	
1973 021GM		6624	USSR	19 APR	7 MAY 73	
1973 021GN		6625	USSR	19 APR	7 MAY 73	
1973 021GP		6626	USSR	19 APR	7 MAY 73	
1973 021GQ		6627	USSR	19 APR	7 MAY 73	
1973 021GR		6628	USSR	19 APR	7 MAY 73	
1973 021GS		6629	USSR	19 APR	7 MAY 73	
1973 021GT		6669	USSR	19 APR	23 SEP 73	
1973 021GU		6670	USSR	19 APR	26 JUN 73	
1973 021GV		6671	USSR	1. APR	23 AUG 73	
1973 021GW		6672	USSR	19 APR	25 JUN 73	
1973 021GX		6673	USSR	19 APR	19 JUN 73	
1973 021GY		6692	USSR	19 APR	15 JUN 73	
1973 021GZ		6693	USSR	19 APR	24 JUN 73	
1973 021HA		5737	USSR	19 APR	2 SEP 73	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 0214R		6739	USSR	19 APR	14 OCT 73	
1973 021HC		6739	USSR	19 APR	2 SEP 73	
1973 021WD		6740	USSR	19 APR	20 SEP 73	
1973 021HE		6785	USSR	19 APR	18 NOV 73	
1973 022A		6433	USSR	19 APR	15 OCT 73	
1973 022A	INTERCOSMOS 9	62023				
1973 022A	COPERNICUS 500	6435	USSR	19 APR	17 OCT 73	
1973 0238		6438	US	20 APR	18 OCT 75	
1973 024A		6440	USSR	25 APR	7 MAY 73	
1973 024B	COSMOS 555	6441	USSR	25 APR	28 APR 73	
1973 024C		6444	USSR	25 APR	6 MAY 73	
1973 024D		6445	USSR	25 APR	9 MAY 73	
1973 025A	COSMOS 556	6446	USSR	5 MAY	14 MAY 73	
1973 025B		6447	USSR	5 MAY	8 MAY 73	
1973 025C		6630	USSR	5 MAY	24 MAY 73	
1973 025D		6631	USSR	5 MAY	15 MAY 73	
1973 025E		6632	USSR	5 MAY	17 MAY 73	
1973 026A	COSMOS 557	6498	USSR	11 MAY	22 MAY 73	
1973 026B		6499	USSR	11 MAY	17 MAY 73	
1973 027A		6633	US	14 MAY	11 JUL 79	
1973 027B		6634	US	14 MAY	11 JAN 75	
1973 027C		6635	US	14 MAY	10 SEP 73	
1973 027D		6636	US	14 MAY	25 JUN 73	
1973 027E		6637	US	14 MAY	5 AUG 75	
1973 027F		6638	US	14 MAY	3 APR 75	
1973 027G		6639	US	14 MAY	4 OCT 73	
1973 027H		6641	US	14 MAY	1 NOV 76	
1973 027J		6642	US	14 MAY	19 JAN 74	
1973 027K		6643	US	14 MAY	10 FEB 75	
1973 027L		6644	US	14 MAY	1 NOV 73	
1973 027M		6651	US	14 MAY	12 JUN 75	
1973 027P		6704	US	14 MAY	13 APR 74	
1973 027Q		6705	US	14 MAY	24 SEP 73	
1973 027R		6729	US	14 MAY	16 OCT 73	
1973 027S		6730	US	14 MAY	14 SEP 73	
1973 027T		6733	US	14 MAY	23 OCT 74	
1973 027U		6735	US	14 MAY	20 AUG 75	
1973 027V		6734	US	14 MAY	15 FEB 74	
1973 027W		6774	US	14 MAY	20 SEP 73	
1973 027X		6780	US	14 MAY	12 DEC 74	
1973 027Y		6781	US	14 MAY	8 NOV 74	
1973 027Z		6782	US	14 MAY	17 JUL 74	
1973 028A		6786	US	14 MAY	16 JAN 75	
1973 029A	COSMOS 558	6640	US	16 MAY	13 JUN 73	
1973 029B		6645	USSR	17 MAY	22 DEC 73	
1973 030A	COSMOS 559	6546	USSR	17 MAY	10 SEP 73	
1973 030B		6647	USSR	18 MAY	23 MAY 73	
1973 030C		6648	USSR	18 MAY	28 MAY 73	
1973 030D		6649	USSR	18 MAY	29 MAY 73	
1973 030D		6650	USSR	18 MAY	12 JUN 73	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 031A	COSMOS 560	6652	USSR	23 MAY	5 JUN 73	
1973 031B		6653	USSR	23 MAY	1 JUN 73	
1973 031C		6654	USSR	23 MAY	1 JUN 73	
1973 031D		6663	USSR	23 MAY	12 JUN 73	
1973 031E		6664	USSR	23 MAY	6 JUN 73	
1973 032A	SKYLAB 2	6655	US	25 MAY	22 JUN 73	F*
1973 032B		6656	US	25 MAY	25 MAY 73	
1973 033A	COSMOS 561	6657	USSR	25 MAY	6 JUN 73	
1973 033B		6658	USSR	25 MAY	2 JUN 73	
1973 033C		6661	USSR	25 MAY	7 JUN 73	
1973 033D		6662	USSR	25 MAY	20 JUN 73	
1973 035A	COSMOS 562	6665	USSR	5 JUN	7 JAN 74	
1973 035B		6666	USSR	5 JUN	29 SEP 73	
1973 036A	COSMOS 563	6667	USSR	6 JUN	18 JUN 73	
1973 036B		6668	USSR	6 JUN	13 JUN 73	
1973 036C		6674	USSR	6 JUN	15 JUN 73	
1973 036D		6703	USSR	6 JUN	25 JUN 73	
1973 036E		6705	USSR	6 JUN	23 JUN 73	
1973 038A	COSMOS 572	6684	USSR	10 JUN	23 JUN 73	
1973 038B		6685	USSR	10 JUN	16 JUN 73	
1973 038C		6711	USSR	10 JUN	26 JUN 73	
1973 038D		6712	USSR	10 JUN	23 JUN 73	
1973 039B		6687	US	10 JUN	1 JUL 78	
1973 039C		6693	US	10 JUN	29 JAN 74	
1973 039E		6690	US	10 JUN	19 SEP 73	
1973 039H		6773	US	10 JUN	27 SEP 73	
1973 041A	COSMOS 573	6694	USSR	15 JUN	17 JUN 73	
1973 041B		6695	USSR	15 JUN	21 JUN 73	
1973 041C		6702	USSR	15 JUN	21 JUN 73	
1973 043A	COSMOS 575	6709	USSR	21 JUN	3 JUL 73	
1973 043B		6710	USSR	21 JUN	27 JUN 73	
1973 044A	COSMOS 576	6713	USSR	27 JUN	9 JUL 73	
1973 044B		6714	USSR	27 JUN	7 JUL 73	
1973 044C		6715	USSR	27 JUN	30 JUN 73	
1973 044D		6716	USSR	27 JUN	30 JUN 73	
1973 044E		6717	USSR	27 JUN	29 JUN 73	
1973 046F		6719	USSR	27 JUN	11 JUL 73	
1973 046G		6720	USSR	27 JUN	11 JUL 73	
1973 046H		6721	USSR	27 JUN	14 JUL 73	
1973 045A	MOLNIYA 2-6	6722	USSR	11 JUL	5 AUG 78	
1973 045B		6723	USSR	11 JUL	22 AUG 73	
1973 045C		6724	USSR	11 JUL	3 AUG 73	
1973 046A		6741	USSR	11 JUL	19 SEP 79	
1973 046B		6727	US	13 JUL	12 OCT 73	
1973 046C		6728	US	13 JUL	15 JUL 73	
1973 047B		6743	USSR	21 JUL	23 JUL 73	
1973 047C		6744	USSR	21 JUL	26 JUL 73	
1973 048A	COSMOS 577	6745	USSR	25 JUL	7 AUG 73	
1973 048B		6753	USSR	25 JUL	1 AUG 73	
1973 048C		6770	USSR	25 JUL	7 AUG 73	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECEASED OBJECTS	SOURCE	LAUNCH	DEATH	NOTES
1973 048D		6772		USSR	25 JUL	12 AUG 73	
1973 048E		6775		USSR	25 JUL	9 AUG 73	
1973 049B		6755		USSR	25 JUL	27 JUL 73	
1973 049C		6756		USSR	25 JUL	27 JUL 73	
1973 050A	SKYLAB 3	6757		US	28 JUL	25 SEP 73	F*
1973 050B		6758		US	28 JUL	28 JUL 73	
1973 051A	COSMOS 578	6759		USSR	1 AUG	13 AUG 73	
1973 051B		6760		USSR	1 AUG	9 AUG 73	
1973 051C		6761		USSR	1 AUG	5 AUG 73	
1973 051D		6762		USSR	1 AUG	2 AUG 73	
1973 051E		6763		USSR	1 AUG	2 AUG 73	
1973 052B		6769		USSR	5 AUG	7 AUG 73	
1973 052C		6771		USSR	5 AUG	7 AUG 73	
1973 052D		7223		USSR	5 AUG	12 MAR 74	
1973 053B		6777		USSR	9 AUG	11 AUG 73	
1973 053C		6778		USSR	9 AUG	11 AUG 73	
1973 055A	COSMOS 579	6789		USSR	21 AUG	3 SEP 73	
1973 055B		6790		USSR	21 AUG	28 AUG 73	
1973 055C		6795		USSR	21 AUG	25 AUG 73	
1973 055D		6813		USSR	21 AUG	5 SEP 73	
1973 055E		6814		USSR	21 AUG	4 SEP 73	
1973 057A	COSMOS 580	6793		USSR	22 AUG	1 APR 74	AR*
1973 057B		6794		USSR	22 AUG	30 NOV 73	
1973 059A	COSMOS 581	6798		USSR	24 AUG	6 SEP 73	
1973 059B		6799		USSR	24 AUG	25 AUG 73	
1973 059C		6801		USSR	24 AUG	6 SEP 73	
1973 059D		6816		USSR	24 AUG	9 SEP 73	
1973 059E		6817		USSR	24 AUG	5 SEP 80	
1973 060A	COSMOS 582	6802		USSR	28 AUG	1 JAN 81	
1973 060B		6803		USSR	28 AUG	20 JUN 82	
1973 060C		6804		USSR	28 AUG	5 MAR 75	
1973 060D		6998		USSR	28 AUG	7 NOV 74	
1973 060E		6999		USSR	30 AUG	5 DEC 79	
1973 061A	MOLNIYA 1-24	6805		USSR	30 AUG	1 OCT 73	
1973 061B		6806		USSR	30 AUG	6 OCT 73	
1973 061C		6807		USSR	30 AUG	6 SEP 73	
1973 061D		6808		USSR	30 AUG	7 SEP 73	
1973 061E		6812		USSR	30 AUG	5 DEC 79	
1973 061F		6815		USSR	30 AUG	12 SEP 73	
1973 062A	COSMOS 583	6809		USSR	30 AUG	6 SEP 73	
1973 062B		6810		USSR	30 AUG	3 SEP 73	
1973 062C		6811		USSR	30 AUG	20 SEP 73	
1973 063A	COSMOS 584	6818		USSR	6 SEP	17 SEP 73	
1973 063B		6819		USSR	6 SEP	9 SEP 73	
1973 063C		6820		USSR	6 SEP	7 SEP 73	
1973 063D		6821		USSR	6 SEP	28 SEP 73	
1973 063E		6830		USSR	6 SEP	25 SEP 73	
1973 063F		6831		USSR	6 SEP	25 SEP 73	
1973 063G		6835		USSR	8 SEP	12 DEC 73	
1973 064C		6827		USSR			

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 066A	COSMOS 587	6832	USSR	21 SEP	4 OCT 73	
1973 066B		6833	USSR	21 SEP	26 SEP 73	
1973 066C		6834	USSR	21 SEP	23 SEP 73	
1973 066D		6854	USSR	21 SEP	8 OCT 73	
1973 066E		6855	USSR	21 SEP	4 OCT 73	
1973 067A	SOYUZ 12	6836	USSR	27 SEP	29 SEP 73	E*
1973 067B		6838	USSR	27 SEP	29 SEP 73	
1973 067C		6839	USSR	27 SEP	21 JAN 74	
1973 067D		6840	USSR	27 SEP	3 NOV 73	
1973 068A		6837	US	27 SEP	29 OCT 73	
1973 070A	COSMOS 596	6856	USSR	3 OCT	9 OCT 73	
1973 070B		6857	USSR	3 OCT	9 OCT 73	
1973 070C		6861	USSR	3 OCT	17 OCT 73	
1973 071A	COSMOS 597	6858	USSR	6 OCT	12 OCT 73	
1973 071B		6859	USSR	6 OCT	14 OCT 73	
1973 071C		6860	USSR	6 OCT	8 OCT 73	
1973 071D		6865	USSR	6 OCT	16 OCT 73	
1973 071E		6866	USSR	6 OCT	18 OCT 73	
1973 072A	COSMOS 598	6862	USSR	10 OCT	16 OCT 73	
1973 072B		6863	USSR	10 OCT	21 OCT 73	
1973 072C		6864	USSR	10 OCT	11 OCT 73	
1973 072D		6871	USSR	10 OCT	20 OCT 73	
1973 072E		6872	USSR	10 OCT	18 OCT 73	
1973 073A	COSMOS 599	6867	USSR	15 OCT	28 OCT 73	
1973 073B		6868	USSR	15 OCT	21 OCT 73	
1973 073C		6869	USSR	15 OCT	24 OCT 73	
1973 073D		6870	USSR	15 OCT	24 OCT 73	
1973 074A	COSMOS 600	6873	USSR	16 OCT	23 OCT 73	
1973 074B		6874	USSR	16 OCT	28 OCT 73	
1973 074C		6887	USSR	16 OCT	24 OCT 73	
1973 074D		6888	USSR	16 OCT	28 OCT 73	
1973 074E		6899	USSR	16 OCT	29 OCT 73	
1973 075A	COSMOS 601	6875	USSR	16 OCT	15 AUG 74	AX*
1973 075B		6876	USSR	16 OCT	6 NOV 73	
1973 075C		6880	USSR	16 OCT	28 MAR 74	
1973 075D		6881	USSR	16 OCT	4 DEC 73	
1973 075E		6882	USSR	16 OCT	7 FEB 74	
1973 075F		6883	USSR	16 OCT	4 DEC 73	
1973 075G		6884	USSR	16 OCT	21 FEB 74	
1973 075H		6889	USSR	16 OCT	4 FEB 74	
1973 075J		6890	USSR	16 OCT	4 DEC 73	
1973 075K		6891	USSR	16 OCT	1 MAR 74	
1973 075L		6892	USSR	16 OCT	4 DEC 73	
1973 075M		6897	USSR	16 OCT	16 JAN 74	
1973 075N		6922	USSR	16 OCT	19 NOV 73	
1973 075P		6923	USSR	16 OCT	4 DEC 73	
1973 076A	MOLNIYA 2-7	6877	USSR	19 OCT	8 JUL 83	
1973 076B		6878	USSR	19 OCT	3 DEC 73	
1973 076C		6879	USSR	19 OCT	18 DEC 73	
1973 076D		6898	USSR	19 OCT	22 JUN 83	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CGNT.)						
1973 077A	COSMOS 602	6885	USSR	20 OCT	29 OCT 73	
1973 077B		6886	USSR	20 OCT	31 OCT 73	
1973 077C		6905	USSR	20 OCT	31 OCT 73	
1973 077D		6906	USSR	20 OCT	1 NOV 73	
1973 078E		6994	US	26 OCT	29 OCT 73	
1973 079A	COSMOS 603	5902	US	26 OCT	27 OCT 73	
1973 079B		6900	USSR	27 OCT	9 NOV 73	
1973 079C		6901	USSR	27 OCT	9 NOV 73	
1973 079D		6903	USSR	27 OCT	29 OCT 73	
1973 079E		6904	USSR	27 OCT	29 OCT 73	
1973 079F	INTERCOSMOS 10	6924	USSR	27 OCT	10 NOV 73	
1973 082A		6925	USSR	27 OCT	13 NOV 73	
1973 082B		6911	USSR	30 OCT	1 JUL 77	
1973 082C		6912	USSR	30 OCT	8 OCT 77	
1973 083A		6915	USSR	30 OCT	7 DEC 73	
1973 083B	COSMOS 605	6913	USSR	31 OCT	22 NOV 73	
1973 083C		6914	USSR	31 OCT	28 NOV 73	
1973 083D		6947	USSR	31 OCT	16 JAN 74	
1973 083E		6948	USSR	31 OCT	5 DEC 73	
1973 083F		6949	USSR	31 OCT	9 JAN 74	
1973 084B	COSMOS 607	6956	USSR	31 OCT	30 DEC 73	
1973 084C		6917	USSR	2 NOV	6 JAN 74	
1973 085BN		6918	USSR	2 NOV	29 JAN 74	
1973 085BV		7070	US	6 NOV	4 NOV 81	
1973 086CJ		7077	US	6 NOV	2 APR 87	
1973 086DX	MOLNIYA 1-25	7090	US	6 NOV	27 JAN 82	
1973 086FF		7159	US	6 NOV	13 MAY 81	
1973 086FH		7197	US	6 NOV	9 JUN 80	
1973 086FK		7199	US	6 NOV	17 JUL 74	
1973 086FN		7201	US	6 NOV	17 NOV 79	
1973 086FP	SKYLAB 4	7204	US	6 NOV	13 DEC 77	
1973 086FQ		7205	US	6 NOV	13 DEC 77	
1973 086FR		7206	US	6 NOV	14 DEC 76	
1973 086FS		7207	US	6 NOV	6 OCT 74	
1973 086FY		7208	US	5 NOV	13 MAY 74	
1973 087A	COSMOS 607	9700	US	6 NOV	22 DEC 78	
1973 087B		6926	USSR	6 NOV	25 OCT 79	
1973 087C		6927	USSR	10 NOV	22 NOV 73	
1973 087D		6930	USSR	10 NOV	23 NOV 73	
1973 087E		6945	USSR	10 NOV	15 NOV 73	
1973 088A	MOLNIYA 1-25	6946	USSR	10 NOV	28 NOV 73	
1973 088B		6929	US	10 NOV	23 NOV 73	
1973 088C		6931	US	10 NOV	13 MAR 74	
1973 089A		6932	US	10 NOV	13 NOV 73	
1973 089B		6933	USSR	14 NOV	26 DEC 78	
1973 089C	SKYLAB 4	6934	USSR	14 NOV	26 MAY 79	
1973 089D		6935	USSR	14 NOV	2 JAN 74	
1973 089E		6940	USSR	14 NOV	26 NOV 73	
1973 090A		6936	USSR	14 NOV	26 JAN 74	
			US	14 NOV	20 AUG 79	
				16 NOV	8 FEB 74	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 0908		6937	US	16 NOV	16 NOV 73	
1973 091A	COSMOS 608	6941	USSR	20 NOV	10 JUL 74	
1973 091B		6942	USSR	20 NOV	23 MAR 74	
1973 092A	COSMOS 609	6943	USSR	21 NOV	4 DEC 73	
1973 092B		6944	USSR	21 NOV	4 DEC 73	
1973 092C		6963	USSR	21 NOV	6 DEC 73	
1973 092D		6964	USSR	21 NOV	5 DEC 73	
1973 093A	COSMOS 610	6950	USSR	27 NOV	15 SEP 80	
1973 093B		6951	USSR	27 NOV	6 NOV 80	
1973 093C		6962	USSR	27 NOV	29 JUN 75	
1973 094A	COSMOS 611	6952	USSR	28 NOV	19 JUN 74	
1973 094B		6955	USSR	28 NOV	26 MAR 74	
1973 095A	COSMOS 612	6953	USSR	28 NOV	11 DEC 73	
1973 095B		6954	USSR	28 NOV	12 DEC 73	
1973 095C		6968	USSR	28 NOV	16 DEC 73	
1973 095D		6969	USSR	28 NOV	12 DEC 73	
1973 095E		6970	USSR	28 NOV	11 DEC 73	
1973 096A	COSMOS 613	6957	USSR	30 NOV	29 JAN 74	
1973 096B		6960	USSR	30 NOV	4 DEC 73	
1973 096C		7103	USSR	30 NOV	9 MAR 74	
1973 097A	MOLNIYA 1-26	6958	USSR	30 NOV	9 JUN 85	
1973 097B		6959	USSR	30 NOV	30 DEC 73	
1973 097C		6961	USSR	30 NOV	31 DEC 73	
1973 097D		7178	USSR	30 NOV	17 APR 86	
1973 097A	COSMOS 615	6971	USSR	13 DEC	17 DEC 75	
1973 099B		6972	USSR	13 DEC	24 JAN 75	
1973 100C	EXPLORER 51	6975	US	13 DEC	17 DEC 73	
1973 101A		6977	US	16 DEC	12 DEC 78	
1973 101B		6978	US	16 DEC	14 AUG 74	
1973 102A	COSMOS 616	6979	USSR	17 DEC	29 DEC 73	
1973 102B		6980	USSR	17 DEC	31 DEC 73	
1973 102C		6981	USSR	17 DEC	14 JAN 74	
1973 102D		6994	USSR	17 DEC	2 JAN 74	
1973 102E		7005	USSR	17 DEC	2 JAN 74	
1973 102F		7007	USSR	17 DEC	2 JAN 74	
1973 103A	SOYUZ 13	6982	USSR	18 DEC	26 DEC 73	
1973 103B		6983	USSR	18 DEC	22 DEC 73	
1973 103C		6984	USSR	18 DEC	14 JAN 74	
1973 105A	COSMOS 625	6995	USSR	21 DEC	3 JAN 74	
1973 105B		6996	USSR	21 DEC	1 JAN 74	
1973 105C		6997	USSR	21 DEC	22 DEC 73	
1973 105D		7010	USSR	21 DEC	2 JAN 74	
1973 105E		7011	USSR	21 DEC	6 JAN 74	
1973 106A	MOLNIYA 2-8	7030	USSR	25 DEC	24 NOV 84	
1973 106B		7001	USSR	25 DEC	24 JAN 74	
1973 106C		7002	USSR	25 DEC	17 JAN 74	
1973 106D		7372	USSR	25 DEC	24 MAY 85	
1973 108B		7113	USSR	27 DEC	17 FEB 74	
1973 108C		7114	USSR	27 DEC	23 FEB 74	
1973 108D		7115	USSR	27 DEC	22 MAR 74	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1973 LAUNCHES (CONT.)						
1973 10RE		7116	USSR	27 DEC	16 FEB 74	
1974 LAUNCHES						
1974 002A	SKYNET 2A	7096	UK	19 JAN	25 JAN 74	
1974 002B		7097	US	19 JAN	20 JAN 74	
1974 002C		7098	US	19 JAN	23 JAN 74	
1974 002D		7099	US	19 JAN	23 JAN 74	
1974 003A	COSMOS 629	7100	USSR	24 JAN	5 FEB 74	
1974 003B		7101	USSR	24 JAN	1 FEB 74	
1974 003C		7102	USSR	24 JAN	26 JAN 74	
1974 003D		7103	USSR	24 JAN	9 FEB 74	
1974 004A	COSMOS 630	7104	USSR	30 JAN	13 FEB 74	
1974 004B		7105	USSR	30 JAN	14 FEB 74	
1974 004C		7106	USSR	30 JAN	6 FEB 74	
1974 004D		7107	USSR	30 JAN	5 FEB 74	
1974 004E		7108	USSR	30 JAN	14 FEB 74	
1974 004F		7109	USSR	30 JAN	16 FEB 74	
1974 005A	COSMOS 631	7110	USSR	6 FEB	3 OCT 80	
1974 005B		7111	USSR	6 FEB	7 DEC 80	
1974 005C		7112	USSR	6 FEB	2 JUL 78	
1974 005D		7113	USSR	6 FEB	11 OCT 75	
1974 005E		7257	USSR	6 FEB	11 JAN 73	
1974 006A	COSMOS 632	7117	USSR	12 FEB	26 FEB 74	
1974 006B		7118	USSR	12 FEB	17 FEB 74	
1974 006C		7171	USSR	12 FEB	27 FEB 74	
1974 006D		7172	USSR	12 FEB	2 MAR 74	
1974 006E		7189	USSR	12 FEB	10 MAR 74	
1974 007A		7121	US	13 FEB	17 MAR 74	
1974 008A	TANSEI 2	7122	JAPAN	16 FEB	22 JAN 83	
1974 008B		7123	JAPAN	16 FEB	21 JAN 83	
1974 009A	SAN MARCO 4	7154	ITALY	18 FEB	4 MAY 76	
1974 009B		7157	US	18 FEB	9 JUN 74	
1974 010A	COSMOS 633	7187	USSR	27 FEB	4 OCT 74	
1974 010B		7189	USSR	27 FEB	11 JUN 74	
1974 012A	COSMOS 634	7211	USSR	5 MAR	9 OCT 74	
1974 012B		7212	USSR	5 MAR	17 JUN 74	
1974 012C		7290	USSR	5 MAR	10 SEP 74	
1974 013C		7215	UK	9 MAR	5 APR 84	
1974 013D		7214	UK	9 MAR	4 MAY 81	
1974 014A	COSMOS 635	7216	USSR	14 MAR	26 MAR 74	
1974 014B		7217	USSR	14 MAR	25 MAR 74	
1974 014C		7220	USSR	14 MAR	23 MAR 74	
1974 014D		7221	USSR	14 MAR	20 MAR 74	
1974 014E		7222	USSR	14 MAR	7 APR 74	
1974 016A	COSMOS 636	7225	USSR	20 MAR	3 APR 74	
1974 016B		7226	USSR	20 MAR	24 MAR 74	
1974 016C		7227	USSR	20 MAR	25 MAR 74	
1974 016D		7232	USSR	20 MAR	4 APR 74	
1974 016E		7233	USSR	20 MAR	3 APR 74	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 016F		7239	USSR	20 MAR	5 APR 74	
1974 017B		7230	USSR	26 MAR	27 MAR 74	
1974 017C		7231	USSR	26 MAR	28 MAR 74	
1974 017D		7248	USSR	26 MAR	16 NOV 76	
1974 017E		7249	USSR	26 MAR	16 NOV 76	
1974 018A	COSMOS 638	7234	USSR	3 APR	13 APR 74	
1974 018B		7235	USSR	3 APR	9 APR 74	
1974 018C		7236	USSR	3 APR	6 APR 74	
1974 018D		7237	USSR	3 APR	5 APR 74	
1974 018E		7238	USSR	3 APR	6 APR 74	
1974 019A	COSMOS 639	7240	USSR	4 APR	15 APR 74	
1974 019B		7241	USSR	4 APR	7 APR 74	
1974 019C		7253	USSR	4 APR	16 APR 74	
1974 019D		7254	USSR	4 APR	17 APR 74	
1974 019E		7255	USSR	4 APR	16 APR 74	
1974 019F		7256	USSR	4 APR	16 APR 74	
1974 020A		7242	US	10 APR	28 JUL 74	
1974 020C		7247	US	10 APR	22 FEB 80	
1974 020D		7243	US	10 APR	12 APR 74	
1974 021A	COSMOS 640	7245	USSR	11 APR	23 APR 74	
1974 021B		7246	USSR	11 APR	14 APR 74	
1974 022B		7251	US	13 APR	25 MAY 74	
1974 022C		7252	US	13 APR	25 NOV 74	
1974 023A	MOLNIYA 1-27	7260	USSR	20 APR	17 NOV 83	
1974 023B		7261	USSR	20 APR	20 JUN 74	
1974 023C		7262	USSR	20 APR	4 JUL 74	
1974 023D		7263	USSR	20 APR	4 MAY 74	
1974 023E		7264	USSR	20 APR	21 DEC 83	
1974 026B		7277	USSR	26 APR	21 MAY 74	
1974 026C		7278	USSR	26 APR	17 MAY 74	
1974 026D		7279	USSR	26 APR	28 APR 74	
1974 027A	COSMOS 649	7280	USSR	29 APR	11 MAY 74	
1974 027B		7282	USSR	29 APR	3 MAY 74	
1974 027C		7283	USSR	29 APR	30 APR 74	
1974 027D		7286	USSR	29 APR	16 MAY 74	
1974 027E		7287	USSR	29 APR	11 MAY 74	
1974 027F		7288	USSR	29 APR	10 MAY 74	
1974 027G		7289	USSR	29 APR	13 MAY 74	
1974 029B		7387	USSR	15 MAY	30 JUL 74	
1974 029C		7388	USSR	15 MAY	5 SEP 74	
1974 030A	COSMOS 652	7292	USSR	15 MAY	23 MAY 74	
1974 030B		7294	USSR	15 MAY	19 MAY 74	
1974 030C		7308	USSR	15 MAY	27 MAY 74	
1974 030D		7309	USSR	15 MAY	25 MAY 74	
1974 030E		7311	USSR	15 MAY	5 JUN 74	
1974 030F		7310	USSR	15 MAY	5 JUN 74	
1974 030G		7312	USSR	15 MAY	25 MAY 74	
1974 031A	COSMOS 653	7293	USSR	15 MAY	27 MAY 74	
1974 031B		7295	USSR	15 MAY	20 MAY 74	
1974 031C		7296	USSR	15 MAY	28 MAY 74	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECAYED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)							
1974 0328		7395		USSR	17 MAY	4 AUG 74	
1974 032C		7396		USSR	17 MAY	30 AUG 74	
1974 032D		7397		USSR	17 MAY	7 SEP 74	
1974 032E		7398		USSR	17 MAY	30 AUG 74	
1974 0338		7300		US	17 MAY	20 MAY 74	
1974 033C		7301		US	17 MAY	21 MAY 74	
1974 033D		7303		US	17 MAY	12 NOV 74	
1974 033E		7304		US	17 MAY	18 MAY 74	
1974 034A	INTERCOSMOS 11	7299		USSR	17 MAY	6 SEP 79	
1974 034B		7302		USSR	17 MAY	7 JAN 80	
1974 034C		7305		USSR	17 MAY	29 DEC 74	
1974 035A	COSMOS 655	7306		USSR	21 MAY	19 NOV 80	
1974 0358		7307		USSR	21 MAY	5 OCT 80	
1974 035C		7515		USSR	21 MAY	10 JUL 81	
1974 035D		7516		USSR	21 MAY	22 APR 81	
1974 035E		7517		USSR	21 MAY	31 OCT 79	
1974 035F		7518		USSR	21 MAY	21 OCT 79	
1974 035G		7519		USSR	21 MAY	8 SEP 79	
1974 035H		8778		USSR	21 MAY	11 JAN 78	
1974 036A	COSMOS 656	7313		USSR	27 MAY	29 MAY 74	
1974 036B		7314		USSR	27 MAY	2 JUN 74	
1974 037B		7316		USSR	29 MAY	2 JUN 74	
1974 037C		7322		USSR	29 MAY	2 JUN 74	
1974 037D		7317		USSR	29 MAY	2 JUN 74	
1974 038A	COSMOS 657	7320		USSR	30 MAY	13 JUN 74	
1974 038B		7321		USSR	30 MAY	2 JUN 74	
1974 038C		7332		USSR	30 MAY	18 JUN 74	
1974 038D		7333		USSR	30 MAY	14 JUN 74	
1974 038E		7319		US	30 MAY	4 JUN 74	
1974 039B	EXPLORER 52	7325		US	3 JUN	28 APR 78	
1974 040A		7326		US	3 JUN	11 OCT 77	
1974 040B		7327		US	3 JUN	10 NOV 74	
1974 040C		7331		US	3 JUN	21 NOV 74	
1974 041A	COSMOS 658	7328		USSR	6 JUN	18 JUN 74	
1974 041B		7329		USSR	6 JUN	12 JUN 74	
1974 042A		7330		US	6 JUN	23 JUL 74	
1974 043A	COSMOS 659	7334		USSR	13 JUN	26 JUN 74	
1974 043B		7335		USSR	13 JUN	18 JUN 74	
1974 043C		7336		USSR	13 JUN	16 JUN 74	
1974 043D		7345		USSR	13 JUN	27 JUN 74	
1974 045A	COSMOS 661	7339		USSR	21 JUN	27 AUG 80	
1974 045B		7340		USSR	21 JUN	16 OCT 80	
1974 045C		7341		USSR	21 JUN	2 FEB 78	
1974 045A	SALYUT 3	7342		USSR	24 JUN	24 JAN 75	
1974 046B		7343		USSR	24 JUN	3 JUL 74	
1974 046C		7344		USSR	24 JUN	27 JUN 74	
1974 046D		7345		USSR	24 JUN	28 JUN 74	
1974 047A	COSMOS 662	7347		USSR	26 JUN	28 AUG 76	
1974 047B		7348		USSR	26 JUN	26 OCT 75	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 049A	COSMOS 664	7351	USSR	29 JUN	11 JUL 74	
1974 049B		7355	USSR	29 JUN	9 JUL 74	
1974 049C		7356	USSR	29 JUN	8 JUL 74	
1974 049D		7357	USSR	29 JUN	1 JUL 74	
1974 049E		7358	USSR	29 JUN	8 JUL 74	
1974 049F		7359	USSR	29 JUN	8 JUL 74	
1974 049G		7365	USSR	29 JUN	13 JUL 74	
1974 049H		7366	USSR	29 JUN	13 JUL 74	
1974 050A	COSMOS 665	7352	USSR	29 JUN	6 JUL 90	
1974 050B		7353	USSR	29 JUN	1 SEP 74	
1974 050D		7360	USSR	29 JUN	13 AUG 74	
1974 051A	SOYUZ 14	7361	USSR	3 JUL	19 JUL 74	
1974 051B		7362	USSR	3 JUL	5 JUL 74	
1974 051C		7374	USSR	3 JUL	17 JUL 74	
1974 053A	COSMOS 666	7367	USSR	12 JUL	25 JUL 74	
1974 053B		7368	USSR	12 JUL	18 JUL 74	
1974 053C		7379	USSR	12 JUL	25 JUL 74	
1974 053D		7381	USSR	12 JUL	30 JUL 74	
1974 053E		7370	US	14 JUL	26 NOV 80	
1974 054A	AEROS 2	7371	FRG	16 JUL	25 SEP 75	
1974 055A		7375	US	16 JUL	9 OCT 74	
1974 055B		7380	FRG	16 JUL	15 OCT 74	
1974 055C		7377	USSR	23 JUL	26 AUG 74	
1974 056A		7378	USSR	23 JUL	28 AUG 74	
1974 056B		7383	USSR	25 JUL	7 AUG 74	
1974 057A	COSMOS 667	7384	USSR	25 JUL	30 JUL 74	
1974 057B		7407	USSR	25 JUL	10 AUG 74	
1974 057C		7408	USSR	25 JUL	18 AUG 74	
1974 057D		7409	USSR	25 JUL	21 FEB 75	
1974 058A	COSMOS 668	7385	USSR	25 JUL	15 NOV 74	
1974 058B		7386	USSR	26 JUL	8 AUG 74	
1974 059A	COSMOS 669	7389	USSR	26 JUL	30 JUL 74	
1974 059B		7390	USSR	26 JUL	29 JUL 74	
1974 059C		7391	USSR	26 JUL	7 AUG 74	
1974 059D		7401	USSR	26 JUL	8 AUG 74	
1974 059E		7402	USSR	26 JUL	7 AUG 74	
1974 059F		7403	USSR	26 JUL	11 AUG 74	
1974 059G		7404	USSR	26 JUL	1 AUG 74	
1974 060A		7393	USSR	29 JUL	31 JUL 74	
1974 060B		7394	USSR	29 JUL	26 JAN 79	
1974 060C		7399	USSR	29 JUL	11 DEC 76	
1974 060D		7400	USSR	29 JUL	9 AUG 74	
1974 060E	COSMOS 670	7405	USSR	6 AUG	13 AUG 74	
1974 061A		7406	USSR	6 AUG	20 AUG 74	
1974 061B	COSMOS 671	7409	USSR	7 AUG	14 AUG 74	
1974 062A		7410	USSR	7 AUG	9 SEP 74	
1974 062B		7419	USSR	7 AUG	23 AUG 74	
1974 062C		7420	USSR	7 AUG	18 AUG 74	
1974 062D		7413	USSR	12 AUG	14 AUG 74	
1974 064A	COSMOS 672	7414	USSR	12 AUG	16 AUG 74	
1974 064B		7415	USSR	12 AUG	16 AUG 74	
1974 064C						

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 065A		7416	US	14 AUG	29 SEP 74	
1974 066A	COSMOS 673	7417	USSR	16 AUG	1 JUN 91	
1974 066D		18913	USSR	16 AUG	27 MAR 89	
1974 067A	SOYUZ 15	7421	USSR	26 AUG	28 AUG 74	E*
1974 067B		7422	USSR	26 AUG	28 AUG 74	
1974 068A		7423	USSR	29 AUG	7 SEP 74	
1974 068B	COSMOS 674	7425	USSR	29 AUG	4 SEP 74	
1974 068C		7431	USSR	29 AUG	14 SEP 74	
1974 068D		7432	USSR	29 AUG	10 SEP 74	
1974 070A	ANS	7427	NETH	30 AUG	14 JUN 77	
1974 070B		7428	US	30 AUG	19 NOV 75	
1974 070C		7429	NETH	30 AUG	20 JUL 75	
1974 070D		7430	NETH	30 AUG	4 OCT 74	
1974 070E		7694	NETH	30 AUG	10 APR 75	
1974 073A	COSMOS 685	7445	USSR	20 SEP	2 OCT 74	
1974 073B		7444	USSR	20 SEP	26 SEP 74	
1974 073C		7446	USSR	20 SEP	25 SEP 74	
1974 074A		7447	USSR	26 SEP	1 MAY 75	
1974 074B	COSMOS 686	7448	USSR	26 SEP	29 OCT 74	
1974 074C		7449	USSR	26 SEP	19 MAR 75	
1974 074D		7450	USSR	26 SEP	1 JAN 76	
1974 074E		7451	USSR	26 SEP	13 NOV 74	
1974 074F		7452	USSR	26 SEP	18 MAR 75	
1974 074G		7453	USSR	26 SEP	5 JUL 75	
1974 074H		7454	USSR	26 SEP	3 NOV 74	
1974 074K		7455	USSR	26 SEP	3 NOV 74	
1974 074L		7456	USSR	26 SEP	3 NOV 74	
1974 074M		7457	USSR	26 SEP	17 NOV 74	
1974 074N		7458	USSR	26 SEP	26 NOV 74	
1974 074P		7459	USSR	26 SEP	5 MAY 75	
1974 074Q		7460	USSR	26 SEP	20 OCT 74	
1974 074R		7461	USSR	26 SEP	18 OCT 74	
1974 074S		7462	USSR	26 SEP	23 OCT 74	
1974 074T		7463	USSR	26 SEP	10 NOV 74	
1974 074U		7464	USSR	26 SEP	1 NOV 74	
1974 074V		7465	USSR	26 SEP	21 FEB 75	
1974 075B		7526	USSR	26 SEP	27 NOV 74	
1974 076A	COSMOS 687	7467	US	10 OCT	23 DEC 78	
1974 076B		7469	USSR	11 OCT	5 FEB 78	
1974 077A	ARIEL 5	7470	USSR	11 OCT	4 JAN 77	
1974 077B		7471	UK	15 OCT	14 MAR 80	
1974 078A	COSMOS 688	7472	US	15 OCT	13 MAY 79	
1974 078B		7473	USSR	18 OCT	30 OCT 74	
1974 078C		7474	USSR	18 OCT	24 OCT 74	
1974 078D		7475	USSR	18 OCT	23 OCT 74	
1974 078E		7496	USSR	19 OCT	31 OCT 74	
1974 080A	COSMOS 690	7479	USSR	22 OCT	12 NOV 74	
1974 080B		7479	USSR	22 OCT	10 NOV 74	
1974 080C		7521	USSR	22 OCT	21 NOV 74	
1974 080D		7522	USSR	22 OCT	3 DEC 74	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 080E		7523	USSR	22 OCT	14 DEC 74	
1974 080F		7524	USSR	22 OCT	16 NOV 74	
1974 080G		7527	USSR	22 OCT	23 NOV 74	
1974 080H		7528	USSR	22 OCT	24 NOV 74	
1974 081A	MOLNIYA 1-28	7480	USSR	24 OCT	29 DEC 85	
1974 081B		7481	USSR	24 OCT	31 DEC 74	
1974 081C		7482	USSR	24 OCT	3 JAN 75	
1974 081D		7485	USSR	24 OCT	27 OCT 86	
1974 081E		7486	USSR	24 OCT	4 NOV 74	
1974 082A	COSMOS 691	7483	USSR	25 OCT	6 NOV 74	
1974 082B		7484	USSR	25 OCT	29 OCT 74	
1974 082C		7511	USSR	25 OCT	10 NOV 74	
1974 082D		7512	USSR	25 OCT	6 NOV 74	
1974 084A	LUNA 23	7491	USSR	28 OCT	6 NOV 74	
1974 084B		7492	USSR	28 OCT	1 NOV 74	
1974 084C		7494	USSR	28 OCT	1 NOV 74	
1974 085A		7495	US	29 OCT	19 MAR 75	
1974 085B		7498	US	29 OCT	23 JAN 80	
1974 085C		7499	US	29 OCT	26 MAY 75	
1974 085D		7497	US	29 OCT	31 OCT 74	
1974 086A	INTERCOSMOS 12	7500	USSR	31 OCT	11 JUL 75	
1974 086B		7501	USSR	31 OCT	23 JUL 75	
1974 086C		7507	USSR	31 OCT	11 NOV 74	
1974 086D		7508	USSR	31 OCT	11 NOV 74	
1974 087A	COSMOS 692	7502	USSR	1 NOV	13 NOV 74	
1974 087B		7503	USSR	1 NOV	6 NOV 74	
1974 087C		7504	USSR	1 NOV	5 NOV 74	
1974 087D		7505	USSR	1 NOV	5 NOV 74	
1974 087E		7506	USSR	1 NOV	5 NOV 74	
1974 087F		7520	USSR	1 NOV	23 NOV 74	
1974 087G		7525	USSR	1 NOV	18 NOV 74	
1974 088A	COSMOS 693	7509	USSR	4 NOV	16 NOV 74	
1974 088B		7510	USSR	4 NOV	9 NOV 74	
1974 088C		7513	USSR	4 NOV	6 NOV 74	
1974 088D		7514	USSR	4 NOV	16 NOV 74	
1974 088E		7534	USSR	4 NOV	17 NOV 74	
1974 089AM		8171	US	15 NOV	8 MAY 82	
1974 089BC		8186	US	15 NOV	27 DEC 78	
1974 089BV		8312	US	15 NOV	3 JUN 82	
1974 089CU		8557	US	15 NOV	10 JUN 82	
1974 089CV		8558	US	15 NOV	28 JAN 78	
1974 089CW		8559	US	15 NOV	10 JUN 82	
1974 089DP		8787	US	15 NOV	24 AUG 77	
1974 089DT		8909	US	15 NOV	15 NOV 81	
1974 090A	COSMOS 694	7533	USSR	16 NOV	29 NOV 74	
1974 090B		7535	USSR	16 NOV	25 NOV 74	
1974 090C		7536	USSR	16 NOV	17 NOV 74	
1974 090D		7537	USSR	16 NOV	18 NOV 74	
1974 090E		7555	USSR	15 NOV	3 DEC 74	
1974 090F		7556	USSR	15 NOV	30 NOV 74	

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DECAYED OBJECTS

INITIAL- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 090G		7557	USSR	16 NOV	3 DEC 74	
1974 091A	COSMOS 695	7538	USSR	20 NOV	15 JUL 75	
1974 091B		7539	USSR	20 NOV	15 MAR 75	
1974 092A	MOLNIYA 3-1	7540	USSR	21 NOV	15 MAY 86	
1974 092B		7541	USSR	21 NOV	27 JAN 75	
1974 092C		7542	USSR	21 NOV	11 JAN 75	
1974 092D		7543	USSR	21 NOV	10 JAN 75	
1974 094B		7548	US	21 NOV	7 JAN 75	
1974 094C		7549	US	23 NOV	26 DEC 74	
1974 094D		7550	US	23 NOV	8 DEC 89	
1974 094E		9530	US	23 NOV	4 NOV 76	
1974 095A	COSMOS 696	7551	USSR	27 NOV	9 DEC 74	
1974 095B		7552	USSR	27 NOV	5 DEC 74	
1974 095C		7553	USSR	27 NOV	29 NOV 74	
1974 095D		7554	USSR	27 NOV	3 DEC 74	
1974 096A	SOYUZ 16	7561	USSR	2 DEC	8 DEC 74	
1974 096B		7562	USSR	2 DEC	7 DEC 74	E*
1974 096C		7563	USSR	2 DEC	8 DEC 74	
1974 096D		7564	USSR	2 DEC	3 DEC 74	
1974 096E		7565	USSR	2 DEC	8 DEC 74	
1974 096F		7566	USSR	2 DEC	8 DEC 74	
1974 098A	COSMOS 697	7571	USSR	13 DEC	25 DEC 74	
1974 098B		7572	USSR	13 DEC	21 DEC 74	
1974 098C		7573	USSR	13 DEC	16 DEC 74	
1974 098D		7589	USSR	13 DEC	26 DEC 74	
1974 099E		7590	USSR	13 DEC	26 DEC 74	
1974 100A	COSMOS 698	7576	USSR	18 DEC	9 DEC 80	
1974 100B		7577	USSR	18 DEC	8 NOV 80	
1974 100C		7582	USSR	18 DEC	6 MAR 77	
1974 100D		7536	USSR	18 DEC	23 SEP 81	
1974 100E		7695	USSR	18 DEC	29 SEP 77	
1974 100F		7722	USSR	18 DEC	20 OCT 79	
1974 100G		7723	USSR	18 DEC	14 APR 80	
1974 100H		7724	USSR	18 DEC	2 MAR 78	
1974 100J		9793	USSR	18 DEC	1 AUG 77	
1974 101B		7579	US	19 DEC	19 APR 78	
1974 101C		7580	US	19 DEC	24 APR 77	
1974 101D		7581	US	19 DEC	2 JAN 77	
1974 101E		8739	US	19 DEC	8 SEP 77	
1974 101F		8740	US	19 DEC	25 DEC 77	
1974 102A	MOLNIYA 2-11	7583	USSR	21 DEC	7 JUL 88	
1974 102B		7584	USSR	21 DEC	12 MAR 75	
1974 102C		7585	USSR	21 DEC	8 MAR 75	
1974 103A	COSMOS 699	7587	USSR	24 DEC	16 OCT 77	
1974 103B		7588	USSR	24 DEC	25 DEC 74	
1974 103C		7748	USSR	24 DEC	8 JAN 77	AZ*
1974 103D		7749	USSR	24 DEC	12 APR 76	
1974 103E		7750	USSR	24 DEC	27 FEB 77	
1974 103F		7754	USSR	24 DEC	1 JUN 75	
1974 103G		7755	USSR	24 DEC	20 JAN 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)						
1974 103H		7756	USSR	24 DEC	23 DEC 76	
1974 103J		7757	USSR	24 DEC	18 OCT 78	
1974 103K		7758	USSR	24 DEC	16 AUG 75	
1974 103L		7759	USSR	24 DEC	6 JUN 76	
1974 103M		7760	USSR	24 DEC	30 OCT 75	
1974 103N		7762	USSR	24 DEC	29 JUL 75	
1974 103P		7763	USSR	24 DEC	12 APR 76	
1974 103Q		7764	USSR	24 DEC	26 AUG 75	
1974 103R		7765	USSR	24 DEC	23 SEP 77	
1974 103S		7766	USSR	24 DEC	25 JUL 75	
1974 103T		7767	USSR	24 DEC	9 JUL 75	
1974 103U		7783	USSR	24 DEC	6 JUL 75	
1974 103V		7784	USSR	24 DEC	10 OCT 75	
1974 103W		7793	USSR	24 DEC	9 JUL 75	
1974 103X		7814	USSR	24 DEC	9 SEP 75	
1974 103Y		7999	USSR	24 DEC	6 DEC 78	
1974 103Z		8046	USSR	24 DEC	1 NOV 75	
1974 103AA		8047	USSR	24 DEC	26 FEB 78	
1974 103AB		8048	USSR	24 DEC	22 MAR 76	
1974 103AC		8049	USSR	24 DEC	10 JUN 78	
1974 103AD		8050	USSR	24 DEC	12 NOV 75	
1974 103AE		8051	USSR	24 DEC	6 NOV 76	
1974 103AF		8052	USSR	24 DEC	4 AUG 75	
1974 103AG		8056	USSR	24 DEC	10 MAR 76	
1974 103AH		8057	USSR	24 DEC	21 NOV 78	
1974 103AJ		8100	USSR	24 DEC	20 SEP 75	
1974 103AK		8101	USSR	24 DEC	13 MAR 76	
1974 103AL		8102	USSR	24 DEC	12 MAR 78	
1974 103AM		8103	USSR	24 DEC	30 SEP 75	
1974 103AN		8104	USSR	24 DEC	29 JAN 76	
1974 103AP		8105	USSR	24 DEC	3 MAY 79	
1974 103AQ		8106	USSR	24 DEC	12 APR 76	
1974 103AR		8109	USSR	24 DEC	24 SEP 75	
1974 103AS		8112	USSR	24 DEC	4 MAR 78	
1974 103AT		8113	USSR	24 DEC	15 JUL 78	
1974 103AU		8114	USSR	24 DEC	9 MAY 76	
1974 103AV		8115	USSR	24 DEC	28 JAN 76	
1974 103AW		8116	USSR	24 DEC	23 SEP 77	
1974 103AX		8117	USSR	24 DEC	14 APR 76	
1974 103AY		8118	USSR	24 DEC	19 JUN 79	
1974 103AZ		8119	USSR	24 DEC	1 NOV 75	
1974 103BA		8120	USSR	24 DEC	10 APR 78	
1974 103B9		8121	USSR	24 DEC	26 DEC 77	
1974 103BC		8122	USSR	24 DEC	28 JUN 78	
1974 104A		7591	USSR	26 DEC	2 FEB 77	
1974 104B		7592	USSR	26 DEC	1 JAN 75	BA*
1974 104C		7595	USSR	26 DEC	28 DEC 74	
1974 104D		7599	USSR	26 DEC	22 JAN 75	
1974 104E		7609	USSR	26 DEC	29 APR 75	
1974 104F		7629	USSR	26 DEC	8 APR 75	
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INTER- NATIONAL DESIGNATION			NAME	DECAYED OBJECTS CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1974 LAUNCHES (CONT.)									
1974 104G				7630		USSR	26 DEC	15 APR 75	
1974 104H				7634		USSR	26 DEC	15 APR 75	
1974 104J				7656		USSR	26 DEC	18 APR 75	
1974 104K				7657		USSR	26 DEC	26 APR 75	
1974 104L				7659		USSR	26 DEC	7 MAY 75	
1974 104M				7661		USSR	26 DEC	13 APR 75	
1974 104N				7662		USSR	26 DEC	10 SEP 75	
1974 104P				7704		USSR	26 DEC	16 JUN 75	
1974 104Q				7995		USSR	26 DEC	16 SEP 75	
1974 104R				7996		USSR	26 DEC	18 SEP 75	
1974 104S				7997		USSR	26 DEC	25 MAR 76	
1974 104T				7998		USSR	26 DEC	15 SEP 75	
1974 104U				8055		USSR	26 DEC	27 OCT 75	
1974 106A			COSMOS 701	7596		USSR	27 DEC	9 JAN 75	
1974 106B				7597		USSR	27 DEC	7 JAN 75	
1974 106C				7599		USSR	27 DEC	2 JAN 75	
1974 106D				7600		USSR	27 DEC	7 JAN 75	
1974 106E				7601		USSR	27 DEC	11 JAN 75	
1974 106F				7602		USSR	27 DEC	15 JAN 75	
1974 106G				7603		USSR	27 DEC	15 JAN 75	
1975 LAUNCHES									
SOYUZ 17									
1975 001A				7604		USSR	10 JAN	9 FEB 75	E*
1975 001B				7605		USSR	10 JAN	14 JAN 75	
1975 001C				7610		USSR	10 JAN	25 MAR 75	
1975 001D				7613		USSR	10 JAN	12 APR 75	
1975 001E				7614		USSR	10 JAN	8 MAY 75	
1975 001F				7622		USSR	10 JAN	24 OCT 75	
1975 001G				7633		USSR	10 JAN	15 APR 75	
1975 001H				7635		USSR	10 JAN	23 MAR 75	
1975 001J				7640		USSR	10 JAN	27 OCT 75	
1975 002A			COSMOS 702	7605		USSR	17 JAN	29 JAN 75	
1975 002B				7607		USSR	17 JAN	29 JAN 75	
1975 002C				7609		USSR	17 JAN	21 JAN 75	
1975 003A			COSMOS 703	7611		USSR	21 JAN	20 NOV 75	
1975 003B				7612		USSR	21 JAN	22 AUG 75	
1975 004D				8676		US	22 JAN	5 NOV 79	
1975 004E				8677		US	22 JAN	14 SEP 79	
1975 004H				8680		US	22 JAN	10 FEB 79	
1975 004K				8683		US	22 JAN	5 APR 77	
1975 004L				8684		US	22 JAN	29 DEC 79	
1975 004N				8687		US	22 JAN	16 FEB 77	
1975 004P				8691		US	22 JAN	22 MAY 82	
1975 004R				8693		US	22 JAN	29 AUG 81	
1975 004S				8936		US	22 JAN	20 NOV 78	
1975 004T				8937		US	22 JAN	9 DEC 79	
1975 004U				8938		US	22 JAN	14 APR 78	
1975 004V				8939		US	22 JAN	5 MAY 81	
1975 004X				8941		US	22 JAN	16 APR 78	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 004Y		8942	US	22 JAN	26 SEP 81	
1975 004Z		8943	US	22 JAN	17 JUL 82	
1975 004AA		8944	US	22 JAN	18 FEB 80	
1975 004AB		8945	US	22 JAN	25 APR 80	
1975 004AC		8946	US	22 JAN	15 JUL 78	
1975 004AD		8947	US	22 JAN	8 APR 81	
1975 004AE		8948	US	22 JAN	10 AUG 81	
1975 004AF		3949	US	22 JAN	6 APR 79	
1975 004AG		8950	US	22 JAN	19 DEC 81	
1975 004AJ		8952	US	22 JAN	29 MAR 79	
1975 004AM		8955	US	22 JAN	23 JUN 77	
1975 004AP		8957	US	22 JAN	4 NOV 79	
1975 004AT		8961	US	22 JAN	24 APR 79	
1975 004AU		8962	US	22 JAN	29 DEC 79	
1975 004AX		8965	US	22 JAN	3 NOV 73	
1975 004AY		8966	US	22 JAN	9 NOV 78	
1975 004BD		8971	US	22 JAN	23 OCT 79	
1975 004BE		8972	US	22 JAN	5 NOV 79	
1975 004BF		8973	US	22 JAN	13 JAN 80	
1975 004BG		8974	US	22 JAN	31 JAN 77	
1975 004BH		8975	US	22 JAN	6 SEP 79	
1975 004BJ		8976	US	22 JAN	21 NOV 79	
1975 004BK		8977	US	22 JAN	28 JUL 81	
1975 004BQ		8982	US	22 JAN	23 JUN 80	
1975 004BR		8983	US	22 JAN	11 SEP 79	
1975 004BS		8984	US	22 JAN	23 NOV 79	
1975 004BT		8985	US	22 JAN	30 MAY 79	
1975 004BU		8985	US	22 JAN	17 OCT 79	
1975 004BV		8987	US	22 JAN	16 DEC 79	
1975 004BW		8988	US	22 JAN	25 APR 79	
1975 004BX		8989	US	22 JAN	16 AUG 78	
1975 004BY		8990	US	22 JAN	27 FEB 82	
1975 004CA		8992	US	22 JAN	23 APR 81	
1975 004CC		8994	US	22 JAN	16 JUN 79	
1975 004CG		8998	US	22 JAN	24 MAR 79	
1975 004CH		8999	US	22 JAN	8 MAY 82	
1975 004CK		9001	US	22 JAN	20 FEB 80	
1975 004CL		9002	US	22 JAN	26 DEC 80	
1975 004CN		9004	US	22 JAN	3 JUL 77	
1975 004CP		9005	US	22 JAN	26 DEC 80	
1975 004CQ		9026	US	22 JAN	9 NOV 78	
1975 004CR		9027	US	22 JAN	4 FEB 78	
1975 004CS		9023	US	22 JAN	1 MAY 78	
1975 004CT		9029	US	22 JAN	22 OCT 80	
1975 004CU		9030	US	22 JAN	11 JAN 80	
1975 004CV		9031	US	22 JAN	14 DEC 79	
1975 004CW		9032	US	22 JAN	4 FEB 77	
1975 004CX		9033	US	22 JAN	21 SEP 79	
1975 004CY		9034	US	22 JAN	9 APR 81	
1975 004CZ		9035	US	22 JAN	12 OCT 73	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 004DA		9035	US	22 JAN	3 FEB 80	
1975 004DB		9037	US	22 JAN	3 OCT 79	
1975 004DC		9039	US	22 JAN	31 JAN 77	
1975 004DD		9039	US	22 JAN	6 OCT 78	
1975 004DE		9041	US	22 JAN	13 SEP 80	
1975 004DH		9282	US	22 JAN	10 DEC 79	
1975 004DJ		9283	US	22 JAN	2 DEC 79	
1975 004DK		9284	US	22 JAN	4 OCT 79	
1975 004DL		9285	US	22 JAN	31 JAN 77	
1975 004DM		9286	US	22 JAN	25 APR 77	
1975 004DN		9287	US	22 JAN	20 APR 79	
1975 004DP		9288	US	22 JAN	1 OCT 77	
1975 004DQ		9289	US	22 JAN	22 JAN 78	
1975 004DR		9290	US	22 JAN	27 MAY 77	
1975 004DS		9291	US	22 JAN	30 JUN 80	
1975 004DV		9294	US	22 JAN	26 FEB 79	
1975 004DW		9295	US	22 JAN	27 JAN 79	
1975 004DX		9296	US	22 JAN	16 MAY 81	
1975 004DY		9297	US	22 JAN	31 JAN 77	
1975 004DZ		9298	US	22 JAN	9 FEB 77	
1975 004EA		9299	US	22 JAN	30 JUN 78	
1975 004EB		9300	US	22 JAN	19 NOV 82	
1975 004EC		9301	US	22 JAN	4 JAN 79	
1975 004ED		9302	US	22 JAN	15 APR 79	
1975 004EE		9303	US	22 JAN	6 APR 80	
1975 004EF		9304	US	22 JAN	5 SEP 80	
1975 004EH		9306	US	22 JAN	21 DEC 80	
1975 004EJ		9307	US	22 JAN	21 OCT 79	
1975 004EK		9308	US	22 JAN	9 MAY 81	
1975 004EL		9309	US	22 JAN	11 AUG 81	
1975 004EM		9310	US	22 JAN	7 JUL 77	
1975 004EN		9311	US	22 JAN	16 JUN 79	
1975 004EP		9312	US	22 JAN	8 MAY 78	
1975 004ER		9314	US	22 JAN	1 DEC 82	
1975 004ES		9315	US	22 JAN	13 FEB 79	
1975 004ET		9316	US	22 JAN	28 DEC 77	
1975 004EU		9317	US	22 JAN	21 APR 81	
1975 004EV		9318	US	22 JAN	4 JUN 79	
1975 004EW		9319	US	22 JAN	4 MAY 80	
1975 004EY		9321	US	22 JAN	5 FEB 80	
1975 004EZ		9322	US	22 JAN	12 APR 77	
1975 004F3		9324	US	22 JAN	8 SEP 79	
1975 004FC		9325	US	22 JAN	11 OCT 80	
1975 004FD		9326	US	22 JAN	17 APR 78	
1975 004FE		9327	US	22 JAN	23 MAR 80	
1975 004FF		9543	US	22 JAN	28 NOV 77	
1975 004FG		9544	US	22 JAN	12 MAY 79	
1975 004FJ		9546	US	22 JAN	7 OCT 77	
1975 004FK		9547	US	22 JAN	19 JAN 80	
1975 004FL		9548	US	22 JAN	1 FEB 79	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 004FM		9549	US	22 JAN	8 JUL 78	
1975 004FN		9550	US	22 JAN	14 APR 79	
1975 004FO		9571	US	22 JAN	31 DEC 78	
1975 004FR		9616	US	22 JAN	2 NOV 81	
1975 004FT		9618	US	22 JAN	31 OCT 80	
1975 004FX		9622	US	22 JAN	18 JAN 79	
1975 004FY		9677	US	22 JAN	11 JUN 81	
1975 004FZ		9678	US	22 JAN	14 JUN 79	
1975 004GB		9580	US	22 JAN	17 JUL 79	
1975 004GF		9583	US	22 JAN	19 JUN 81	
1975 004GH		9584	US	22 JAN	20 FEB 79	
1975 004GJ		9586	US	22 JAN	15 JUN 79	
1975 004GK		9587	US	22 JAN	30 NOV 79	
1975 004GM		9688	US	22 JAN	11 SEP 80	
1975 004GN		9690	US	22 JAN	6 JUN 80	
1975 004GP		9691	US	22 JAN	21 JUN 78	
1975 004GQ		9705	US	22 JAN	28 APR 78	
1975 004GR		9706	US	22 JAN	4 DEC 78	
1975 004GS		9707	US	22 JAN	16 NOV 79	
1975 004GT		9708	US	22 JAN	2 MAY 79	
1975 004GW		9709	US	22 JAN	12 MAR 78	
1975 004GX		9712	US	22 JAN	3 JAN 79	
1975 004GY		9713	US	22 JAN	18 JUL 78	
1975 004GZ		9714	US	22 JAN	7 JAN 79	
1975 004HA		9715	US	22 JAN	9 MAY 79	
1975 004HB		9716	US	22 JAN	25 NOV 77	
1975 004HC		9717	US	22 JAN	11 APR 79	
1975 004HD		9949	US	22 JAN	26 OCT 81	
1975 004HE		9950	US	22 JAN	14 JUL 79	
1975 004HF		10397	US	22 JAN	6 JAN 81	
1975 005A	COSMOS 704	7617	USSR	23 JAN	6 FEB 75	
1975 005B		7618	USSR	23 JAN	3 FEB 75	
1975 005C		7619	USSR	23 JAN	29 JAN 75	
1975 005D		7620	USSR	23 JAN	26 JAN 75	
1975 005E		7621	USSR	23 JAN	26 JAN 75	
1975 005F		7631	USSR	23 JAN	7 FEB 75	
1975 005G		7632	USSR	23 JAN	6 FEB 75	
1975 005H		7644	USSR	23 JAN	8 FEB 75	
1975 005J		7649	USSR	23 JAN	9 FEB 75	
1975 006A	COSMOS 705	7623	USSR	28 JAN	18 NOV 75	
1975 006B		7624	USSR	28 JAN	25 JUN 75	
1975 007A		7626	USSR	30 JAN	4 APR 75	
1975 007C		7627	USSR	30 JAN	2 MAR 75	
1975 008A	COSMOS 707	7637	USSR	5 FEB	7 SEP 80	
1975 008B		7638	USSR	5 FEB	27 AUG 80	
1975 008C		7639	USSR	5 FEB	14 DEC 74	
1975 008D		7645	USSR	5 FEB	17 APR 77	
1975 008E		7777	USSR	5 FEB	29 APR 77	
1975 009A	MELNIVA 2-12	7441	USSR	6 FEB	4 JUL 85	
1975 009B		7542	USSR	6 FEB	25 APR 75	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 009C		7643	USSR	6 FEB	23 APR 75	
1975 009D		7653	USSR	6 FEB	30 SEP 90	
1975 011B		7650	US	6 FEB	6 APR 82	
1975 011C		7651	US	5 FEB	16 FEB 75	
1975 011D		7652	US	6 FEB	16 FEB 75	
1975 011E		7650	US	6 FEB	21 FEB 75	
1975 013A	COSMOS 709	7664	USSR	12 FEB	25 FEB 75	
1975 013B		7666	USSR	12 FEB	17 FEB 75	
1975 013C		7667	USSR	12 FEB	15 FEB 75	
1975 013D		7668	USSR	12 FEB	15 FEB 75	
1975 013E		7669	USSR	12 FEB	15 FEB 75	
1975 013F		7672	USSR	12 FEB	1 MAR 75	
1975 013G		7673	USSR	12 FEB	26 FEB 75	
1975 014A	SRAIS (TAIYU)	7671	JAPAN	24 FEB	29 JUN 80	
1975 014B		7674	JAPAN	24 FEB	17 MAY 80	
1975 015A	COSMOS 710	7675	USSR	26 FEB	12 MAR 75	
1975 015B		7676	USSR	26 FEB	3 MAR 75	
1975 015C		7677	USSR	26 FEB	3 MAR 75	
1975 015D		7689	USSR	26 FEB	12 MAR 75	
1975 015E		7690	USSR	26 FEB	16 MAR 75	
1975 018A	COSMOS 719	7691	USSR	12 MAR	25 MAR 75	
1975 018B		7692	USSR	12 MAR	16 MAR 75	
1975 018C		7693	USSR	12 MAR	15 MAR 75	
1975 018D		7701	USSR	12 MAR	26 MAR 75	
1975 018E		7702	USSR	12 MAR	30 MAR 75	
1975 018F		7703	USSR	12 MAR	28 MAR 75	
1975 019A	COSMOS 720	7695	USSR	21 MAR	1 APR 75	
1975 019B		7697	USSR	21 MAR	30 MAR 75	
1975 019C		7698	USSR	21 MAR	22 MAR 75	
1975 019D		7699	USSR	21 MAR	25 MAR 75	
1975 019E		7700	USSR	21 MAR	22 MAR 75	
1975 019F		7717	USSR	21 MAR	5 APR 75	
1975 019G		7719	USSR	21 MAR	4 APR 75	
1975 019H		7725	USSR	21 MAR	10 APR 75	
1975 019J		7726	USSR	21 MAR	9 APR 75	
1975 020A	COSMOS 721	7705	USSR	26 MAR	7 APR 75	
1975 020B		7706	USSR	26 MAR	29 MAR 75	
1975 020C		7707	USSR	26 MAR	29 MAR 75	
1975 020D		7708	USSR	26 MAR	31 MAR 75	
1975 020E		7720	USSR	26 MAR	7 APR 75	
1975 020F		7721	USSR	26 MAR	10 APR 75	
1975 021A	COSMOS 722	7709	USSR	27 MAR	9 APR 75	
1975 021B		7711	USSR	27 MAR	9 APR 75	
1975 021C		7712	USSR	27 MAR	29 MAR 75	
1975 021D		7715	USSR	27 MAR	2 APR 75	
1975 021E		7723	USSR	27 MAR	10 APR 75	
1975 021F		7729	USSR	27 MAR	12 APR 75	
1975 021G		7732	USSR	27 MAR	14 APR 75	
1975 021H		7733	USSR	27 MAR	10 APR 75	
1975 022A	INTERCOSMOS 13	7710	USSR	27 MAR	2 SEP 00	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 0228		7713	USSR	27 MAR	21 APR 80	
1975 0248		7795	USSR	2 APR	21 MAY 75	
1975 024C		7796	USSR	2 APR	19 MAY 75	
1975 024D		7797	USSR	2 APR	15 JUL 75	
1975 024E		7798	USSR	2 APR	24 MAY 75	
1975 024F		7799	USSR	2 APR	25 MAY 75	
1975 0258		7922	USSR	7 APR	7 AUG 75	
1975 025C		7923	USSR	7 APR	17 JUN 75	
1975 025D		18281	USSR	7 APR	5 OCT 88	
1975 026A	COSMOS 725	7730	USSR	8 APR	6 JAN 76	
1975 026B		7731	USSR	8 APR	9 SEP 75	
1975 027D		10729	US	9 APR	7 DEC 83	
1975 029A	MOLNIYA 3-2	7738	USSR	14 APR	29 NOV 88	
1975 029B		7739	USSR	14 APR	20 JUN 75	
1975 029C		7740	USSR	14 APR	4 JUN 75	
1975 030A		7742	USSR	16 APR	28 APR 75	
1975 030B		7743	USSR	16 APR	21 APR 75	
1975 030C	COSMOS 727	7744	USSR	16 APR	19 APR 75	
1975 030D		7774	USSR	16 APR	5 MAY 75	
1975 030E		7775	USSR	16 APR	1 MAY 75	
1975 031A	COSMOS 728	7745	USSR	18 APR	29 APR 75	
1975 031B		7746	USSR	18 APR	30 APR 75	
1975 031C		7751	USSR	18 APR	20 APR 75	
1975 031D		7761	USSR	18 APR	22 APR 75	
1975 031E		7776	USSR	18 APR	3 MAY 75	
1975 031F		7778	USSR	18 APR	28 APR 75	
1975 031G		7779	USSR	18 APR	16 MAY 75	
1975 032A		7747	US	18 APR	5 JUN 75	
1975 032B		7753	USSR	19 APR	6 NOV 88	
1975 033C		8058	USSR	19 APR	12 MAR 78	
1975 033D		9839	USSR	19 APR	21 JUN 77	
1975 035A	COSMOS 730	7770	USSR	24 APR	6 MAY 75	
1975 035B		7771	USSR	24 APR	29 APR 75	
1975 035C		7772	USSR	24 APR	1 MAY 75	
1975 035D		7773	USSR	24 APR	28 APR 75	
1975 035E		7785	USSR	24 APR	7 MAY 75	
1975 035F		7786	USSR	24 APR	6 MAY 75	
1975 035G		7787	USSR	24 APR	24 MAY 75	
1975 036B		7781	USSR	29 APR	29 MAY 75	
1975 036C		7782	USSR	29 APR	3 JUN 75	
1975 037A	EXPLORER 53	7788	US	7 MAY	9 APR 79	
1975 037B		7789	US	7 MAY	9 SEP 79	
1975 038B		7791	US	7 MAY	3 NOV 76	
1975 038C		7792	US	7 MAY	8 MAY 75	
1975 039A	POLLUX	7801	FRANCE	17 MAY	5 AUG 75	
1975 039B	CASTOR	7802	FRANCE	17 MAY	18 FEB 79	
1975 039C		7803	FRANCE	17 MAY	7 AUG 76	
1975 039D		7804	FRANCE	17 MAY	26 SEP 75	
1975 039E		7805	FRANCE	17 MAY	18 JUN 75	
1975 039F		7806	FRANCE	17 MAY	30 SEP 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 039G		8035	FRANCE	17 MAY	29 JAN 78	
1975 040A		7807	US	20 MAY	26 MAY 75	
1975 040B		7808	US	20 MAY	26 MAY 75	E*
1975 040C		7809	US	20 MAY	21 MAY 75	
1975 041A	COSMOS 731	7810	USSR	21 MAY	2 JUN 75	
1975 041B		7811	USSR	21 MAY	30 MAY 75	
1975 041C		7812	USSR	21 MAY	24 MAY 75	
1975 041D		7813	USSR	21 MAY	26 MAY 75	
1975 041E		7879	USSR	21 MAY	6 JUN 75	
1975 041F		7880	USSR	21 MAY	9 JUN 75	
1975 041G		7881	USSR	21 MAY	11 JUN 75	
1975 041H		7885	USSR	21 MAY	19 JUN 75	
1975 044A		7818	USSR	24 MAY	26 JUL 75	
1975 044B		7819	USSR	24 MAY	27 MAY 75	
1975 044C		7911	USSR	24 MAY	15 MAY 76	
1975 044D		7912	USSR	24 MAY	20 SEP 75	
1975 044E		7943	USSR	24 MAY	28 MAR 76	
1975 044F		7949	USSR	24 MAY	17 JUN 75	
1975 044G		7953	USSR	24 MAY	4 OCT 75	
1975 044H		7955	USSR	24 MAY	1 OCT 75	E*
1975 044J		7956	USSR	24 MAY	24 SEP 75	88*
1975 044K		7962	USSR	24 MAY	15 SEP 75	
1975 044L		7984	USSR	24 MAY	12 OCT 75	
1975 044M		8019	USSR	24 MAY	7 OCT 75	
1975 044N		8020	USSR	24 MAY	6 MAR 76	
1975 044P		8021	USSR	24 MAY	9 OCT 75	
1975 044Q		8022	USSR	24 MAY	9 OCT 75	
1975 044R		8023	USSR	24 MAY	29 MAR 76	
1975 044S		8024	USSR	24 MAY	12 FEB 76	
1975 044T		8025	USSR	24 MAY	5 OCT 75	
1975 044U		8038	USSR	24 MAY	20 OCT 75	
1975 046A	COSMOS 740	7821	USSR	28 MAY	10 JUN 75	
1975 046B		7829	USSR	28 MAY	3 JUN 75	
1975 046C		7830	USSR	28 MAY	4 JUN 75	
1975 046D		7920	USSR	28 MAY	18 JUN 75	
1975 046E		7921	USSR	28 MAY	18 JUN 75	
1975 047A	COSMOS 741	7877	USSR	30 MAY	11 JUN 75	
1975 047B		7878	USSR	30 MAY	4 JUN 75	
1975 048A	COSMOS 742	7900	USSR	3 JUN	15 JUN 75	
1975 048B		7901	USSR	3 JUN	11 JUN 75	
1975 048C		7913	USSR	3 JUN	12 JUN 75	
1975 048D		7951	USSR	3 JUN	16 JUN 75	
1975 048E		7952	USSR	3 JUN	15 JUN 75	
1975 049A	MOLNIYA 1-30	7903	USSR	5 JUN	12 AUG 87	
1975 049C		7904	USSR	5 JUN	16 JUL 75	
1975 049D		7905	USSR	5 JUN	8 JUL 75	
1975 049E		7906	USSR	5 JUN	16 AUG 75	
1975 049F		8543	USSR	5 JUN	13 OCT 90	
1975 050B		7916	USSR	8 JUN	9 JUN 75	
1975 050C		7917	USSR	8 JUN	9 JUN 75	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 0500	DESCENT CRAFT	8411	USSR	8 JUN	22 OCT 75	N*
1975 051A		7918	US	8 JUN	5 NOV 75	
1975 0510		7919	US	8 JUN	11 JUN 75	
1975 052C		7965	US	12 JUN	1 JUL 81	
1975 053A	COSMOS 743	7925	USSR	12 JUN	25 JUN 75	N*
1975 0533		7926	USSR	12 JUN	20 JUN 75	
1975 053C		7927	USSR	12 JUN	18 JUN 75	
1975 0530		7972	USSR	12 JUN	29 JUN 75	
1975 053E		7981	USSR	12 JUN	26 JUN 75	
1975 053F		7987	USSR	12 JUN	26 JUN 75	
1975 054B		7950	USSR	14 JUN	15 JUN 75	
1975 054C		7954	USSR	14 JUN	15 JUN 75	
1975 0540	DESCENT CRAFT	8423	USSR	14 JUN	25 OCT 75	
1975 056A	COSMOS 744	7959	USSR	20 JUN	12 OCT 91	
1975 057A	OS 8	7970	US	21 JUN	9 JUL 86	N*
1975 057B		7971	US	21 JUN	9 APR 81	
1975 058A	COSMOS 745	7982	USSR	24 JUN	12 MAR 76	
1975 058B		7983	USSR	24 JUN	14 NOV 75	
1975 059A	COSMOS 746	7985	USSR	25 JUN	8 JUL 75	
1975 059B		7986	USSR	25 JUN	1 JUL 75	
1975 059C		7988	USSR	25 JUN	26 JUN 75	
1975 059D		7989	USSR	25 JUN	26 JUN 75	
1975 059E		8011	USSR	25 JUN	12 JUL 75	
1975 059F		8012	USSR	25 JUN	9 JUL 75	
1975 060A	COSMOS 747	7990	USSR	27 JUN	9 JUL 75	N*
1975 0600		7991	USSR	27 JUN	3 JUL 75	
1975 060C		7992	USSR	27 JUN	28 JUN 75	
1975 060D		7993	USSR	27 JUN	2 JUL 75	
1975 060E		7994	USSR	27 JUN	29 JUN 75	
1975 060F		8013	USSR	27 JUN	17 JUL 75	
1975 060G		8014	USSR	27 JUN	9 JUL 75	
1975 061A	COSMOS 748	8036	USSR	3 JUL	16 JUL 75	
1975 0610		8007	USSR	3 JUL	9 JUL 75	
1975 061C		8008	USSR	3 JUL	15 JUL 75	
1975 061D		8029	USSR	3 JUL	15 JUL 75	RC*
1975 061E		8029	USSR	3 JUL	16 JUL 75	
1975 061F		8034	USSR	3 JUL	17 JUL 75	
1975 062A	COSMOS 749	8009	USSR	4 JUL	26 SEP 80	
1975 062B		8010	USSR	4 JUL	26 DEC 80	
1975 062C		8107	USSR	4 JUL	27 AUG 81	
1975 063A		8016	USSR	8 JUL	9 AUG 75	
1975 063C		8017	USSR	8 JUL	9 AUG 75	
1975 065A	SOYUZ 19	8030	USSR	15 JUL	21 JUL 75	
1975 065B		8031	USSR	15 JUL	17 JUL 75	
1975 066A	APOLLO 18	8032	US	15 JUL	24 JUL 75	RC*
1975 0653		8033	US	15 JUL	16 JUL 75	
1975 065C		8042	US	15 JUL	2 AUG 75	
1975 067A	COSMOS 750	8035	USSR	17 JUL	29 SEP 77	
1975 067B		8037	USSR	17 JUL	17 NOV 76	
1975 067C		8045	USSR	17 JUL	28 JUL 75	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 068A	COSMOS 751	8040	USSR	23 JUL	4 AUG 75	
1975 068B		8041	USSR	23 JUL	30 JUL 75	
1975 069A	COSMOS 752	8043	USSR	24 JUL	28 FEB 81	
1975 069B		8044	USSR	24 JUL	5 NOV 79	
1975 070A	MAO 3	8053	PRC	26 JUL	14 SEP 75	
1975 070B		8054	PRC	26 JUL	25 AUG 75	
1975 071A	COSMOS 753	8059	USSR	31 JUL	13 AUG 75	
1975 071B		8060	USSR	31 JUL	7 AUG 75	
1975 071C		8061	USSR	31 JUL	1 AUG 75	
1975 071D		8067	USSR	31 JUL	16 AUG 75	
1975 071E		8068	USSR	31 JUL	13 AUG 75	
1975 073A		8069	USSR	13 AUG	26 AUG 75	
1975 073B	COSMOS 754	8070	USSR	13 AUG	25 AUG 75	
1975 073C		8071	USSR	13 AUG	15 AUG 75	
1975 073D		8129	USSR	13 AUG	31 AUG 75	
1975 073E		8130	USSR	13 AUG	27 AUG 75	
1975 073F		8131	USSR	13 AUG	27 AUG 75	
1975 075C	VIKING LANDER 1	9024	US	20 AUG	20 JUL 76	3D*
1975 077D		8135	US	27 AUG	23 SEP 76	
1975 078A	COSMOS 757	8147	USSR	27 AUG	9 SEP 75	
1975 078B		8148	USSR	27 AUG	3 SEP 75	
1975 078C		8149	USSR	27 AUG	2 SEP 75	
1975 078D		8150	USSR	27 AUG	2 SEP 75	
1975 078E		8193	USSR	27 AUG	8 SEP 75	
1975 078F		8194	USSR	27 AUG	11 SEP 75	
1975 079A		8187	USSR	2 SEP	19 NOV 86	
1975 079B	MOLNIYA 1-31	8188	USSR	2 SEP	10 NOV 75	
1975 079C		8189	USSR	2 SEP	1 NOV 75	
1975 079D		8190	USSR	2 SEP	12 OCT 75	
1975 079E		8274	USSR	2 SEP	8 JUL 66	
1975 080A		8191	USSR	5 SEP	25 SEP 75	
1975 080B		8192	USSR	5 SEP	10 SEP 75	
1975 080C	COSMOS 758	8200	USSR	5 SEP	9 SEP 75	3E*
1975 080D		8201	USSR	5 SEP	9 SEP 75	
1975 080E		8202	USSR	5 SEP	9 SEP 75	
1975 080F		8203	USSR	5 SEP	9 SEP 75	
1975 080G		9204	USSR	5 SEP	9 SEP 75	
1975 080H		8205	USSR	5 SEP	9 SEP 75	
1975 080J		8206	USSR	5 SEP	9 SEP 75	
1975 080K		8207	USSR	5 SEP	9 SEP 75	
1975 080L		8208	USSR	5 SEP	9 SEP 75	
1975 080M		8209	USSR	5 SEP	9 SEP 75	
1975 080N		8210	USSR	5 SEP	9 SEP 75	
1975 080P		8211	USSR	5 SEP	9 SEP 75	
1975 080Q		8212	USSR	5 SEP	9 SEP 75	
1975 080R		8213	USSR	5 SEP	9 SEP 75	
1975 080S		8214	USSR	5 SEP	9 SEP 75	
1975 080T		8215	USSR	5 SEP	9 SEP 75	
1975 080U		8216	USSR	5 SEP	9 SEP 75	
1975 080V		8217	USSR	5 SEP	9 SEP 75	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 080W		8218	USSR	5 SEP	9 SEP 75	
1975 080X		8219	USSR	5 SEP	9 SEP 75	
1975 080Y		8220	USSR	5 SEP	9 SEP 75	
1975 080Z		8221	USSR	5 SEP	9 SEP 75	
1975 080AA		8222	USSR	5 SEP	9 SEP 75	
1975 080AB		8223	USSR	5 SEP	9 SEP 75	
1975 080AC		8224	USSR	5 SEP	9 SEP 75	
1975 080AD		8225	USSR	5 SEP	9 SEP 75	
1975 080AE		8226	USSR	5 SEP	9 SEP 75	
1975 080AF		8227	USSR	5 SEP	9 SEP 75	
1975 080AG		8228	USSR	5 SEP	9 SEP 75	
1975 080AH		8229	USSR	5 SEP	9 SEP 75	
1975 080AJ		8230	USSR	5 SEP	9 SEP 75	
1975 080AK		8231	USSR	5 SEP	9 SEP 75	
1975 080AL		8232	USSR	5 SEP	9 SEP 75	
1975 080AM		8233	USSR	5 SEP	9 SEP 75	
1975 080AN		8234	USSR	5 SEP	9 SEP 75	
1975 080AP		8235	USSR	5 SEP	9 SEP 75	
1975 080AQ		8236	USSR	5 SEP	9 SEP 75	
1975 080AR		8237	USSR	5 SEP	9 SEP 75	
1975 080AS		8238	USSR	5 SEP	9 SEP 75	
1975 080AT		8239	USSR	5 SEP	9 SEP 75	
1975 080AU		8240	USSR	5 SEP	9 SEP 75	
1975 080AV		8241	USSR	5 SEP	9 SEP 75	
1975 080AW		8242	USSR	5 SEP	9 SEP 75	
1975 080AX		8243	USSR	5 SEP	9 SEP 75	
1975 080AY		8244	USSR	5 SEP	9 SEP 75	
1975 080AZ		8245	USSR	5 SEP	9 SEP 75	
1975 080BA		8246	USSR	5 SEP	9 SEP 75	
1975 080BB		8247	USSR	5 SEP	9 SEP 75	
1975 080BC		8248	USSR	5 SEP	9 SEP 75	
1975 080BD		8249	USSR	5 SEP	9 SEP 75	
1975 080BE		8250	USSR	5 SEP	9 SEP 75	
1975 080BF		8251	USSR	5 SEP	9 SEP 75	
1975 080BG		8252	USSR	5 SEP	9 SEP 75	
1975 080BH		8253	USSR	5 SEP	9 SEP 75	
1975 080BJ		8254	USSR	5 SEP	9 SEP 75	
1975 080BK		8255	USSR	5 SEP	9 SEP 75	
1975 080BL		8256	USSR	5 SEP	9 SEP 75	
1975 080BM		8257	USSR	5 SEP	9 SEP 75	
1975 080BN		8258	USSR	5 SEP	9 SEP 75	
1975 080BP		8259	USSR	5 SEP	9 SEP 75	
1975 060BQ		8260	USSR	5 SEP	9 SEP 75	
1975 080BR		8261	USSR	5 SEP	9 SEP 75	
1975 080BS		8262	USSR	5 SEP	9 SEP 75	
1975 080BT		8263	USSR	5 SEP	9 SEP 75	
1975 080BU		8264	USSR	5 SEP	9 SEP 75	
1975 080BV		8265	USSR	5 SEP	9 SEP 75	
1975 080BW		8266	USSR	5 SEP	9 SEP 75	
1975 080BX		8267	USSR	5 SEP	9 SEP 75	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 0808Y		8263	USSR	5 SEP	9 SEP 75	
1975 0808Z		8269	USSR	5 SEP	9 SEP 75	
1975 080CA		8270	USSR	5 SEP	9 SEP 75	
1975 080CB		8271	USSR	5 SEP	9 SEP 75	
1975 080CC		8273	USSR	5 SEP	17 SEP 75	
1975 080CD		8280	USSR	5 SEP	3 OCT 75	
1975 080CE		8283	USSR	5 SEP	26 SEP 75	
1975 081B		8196	USSR	9 SEP	9 OCT 75	
1975 081C		8199	USSR	9 SEP	18 OCT 75	
1975 083C	VIKING LANDER 2	9408	US	9 SEP	3 SEP 76	80*
1975 084A	COSMOS 759	8275	USSR	12 SEP	23 SEP 75	
1975 084B		8276	USSR	12 SEP	25 SEP 75	
1975 084C		8277	USSR	12 SEP	14 SEP 75	
1975 084D		8278	USSR	12 SEP	17 SEP 75	
1975 084E		8279	USSR	12 SEP	16 SEP 75	
1975 084F		8324	USSR	12 SEP	26 SEP 75	
1975 084G		8329	USSR	12 SEP	26 SEP 75	
1975 085A	COSMOS 760	8281	USSR	16 SEP	30 SEP 75	
1975 085B		8282	USSR	16 SEP	21 SEP 75	
1975 085C		8284	USSR	16 SEP	18 SEP 75	
1975 085D		8334	USSR	16 SEP	5 OCT 75	
1975 085E		8335	USSR	16 SEP	30 SEP 75	
1975 085F		8347	USSR	16 SEP	1 OCT 75	
1975 088A	COSMOS 769	8322	USSR	23 SEP	5 OCT 75	
1975 088B		8323	USSR	23 SEP	2 OCT 75	
1975 088C		8349	USSR	23 SEP	13 OCT 75	
1975 090A	COSMOS 771	8327	USSR	25 SEP	8 OCT 75	
1975 090B		8328	USSR	25 SEP	29 SEP 75	
1975 090C		8355	USSR	25 SEP	12 OCT 75	
1975 090D		8356	USSR	25 SEP	8 OCT 75	
1975 092A	02-5	8332	FRANCE	27 SEP	30 SEP 82	
1975 092B		8333	FRANCE	27 SEP	30 MAR 82	
1975 092C		8336	FRANCE	27 SEP	17 OCT 78	
1975 092D		8337	FRANCE	27 SEP	16 MAY 78	
1975 092E		8340	FRANCE	27 SEP	27 OCT 78	
1975 092F		8341	FRANCE	27 SEP	1 JAN 80	
1975 092G		8342	FRANCE	27 SEP	20 NOV 79	
1975 093A	COSMOS 772	8338	USSR	29 SEP	2 OCT 75	
1975 093B		8339	USSR	29 SEP	6 OCT 75	
1975 095A	COSMOS 774	8345	USSR	1 OCT	15 OCT 75	
1975 095B		8348	USSR	1 OCT	10 OCT 75	
1975 095C		8350	USSR	1 OCT	8 OCT 75	
1975 095D		8351	USSR	1 OCT	8 OCT 75	
1975 095E		8362	USSR	1 OCT	14 OCT 75	
1975 095F		8363	USSR	1 OCT	16 OCT 75	
1975 095G		8365	USSR	1 OCT	14 OCT 75	
1975 095A	EXPLORER 54	8353	US	6 OCT	12 MAR 76	
1975 096B		8354	US	6 OCT	1 APR 76	
1975 097B		8358	USSR	8 OCT	10 OCT 75	
1975 097C		8359	USSR	8 OCT	9 OCT 75	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 0970		8414	USSR	8 OCT	1 MAR 78	
1975 099A		8360	US	9 OCT	30 NOV 75	
1975 099A	TIP 2	8361	US	12 OCT	26 MAY 91	
1975 099b		8364	US	12 OCT	28 MAR 78	
1975 099C		8409	US	12 OCT	12 NOV 78	
1975 099D		8410	US	12 OCT	31 MAY 76	
1975 100H		8367	US	16 OCT	5 JAN 76	
1975 100D		8371	US	16 OCT	11 NOV 75	
1975 100E		8372	US	16 OCT	1 NOV 75	
1975 101A	COSMOS 776	8369	USSR	17 OCT	29 OCT 75	
1975 1013		8370	USSR	17 OCT	23 OCT 75	
1975 101C		8373	USSR	17 OCT	8 NOV 75	
1975 101D		8412	USSR	17 OCT	1 NOV 75	
1975 101E		8413	USSR	17 OCT	31 OCT 75	
1975 102A	COSMOS 777	8416	USSR	29 OCT	3 JUN 76	
1975 102B		8417	USSR	29 OCT	30 OCT 75	
1975 102C		8522	USSR	29 OCT	4 DEC 76	
1975 102D		8623	USSR	29 OCT	13 DEC 76	
1975 102E		8624	USSR	29 OCT	15 NOV 76	
1975 102F		8625	USSR	29 OCT	15 MAR 76	
1975 102G		8626	USSR	29 OCT	8 JAN 77	
1975 102H		8627	USSR	29 OCT	23 FEB 77	
1975 102J		8628	USSR	29 OCT	15 NOV 76	
1975 102K		8629	USSR	29 OCT	15 NOV 76	
1975 102L		8630	USSR	29 OCT	19 AUG 76	
1975 102M		8631	USSR	29 OCT	21 AUG 77	
1975 102N		8632	USSR	29 OCT	20 JUL 77	
1975 102P		8633	USSR	29 OCT	9 DEC 76	
1975 102Q		8634	USSR	29 OCT	4 DEC 76	
1975 102R		8635	USSR	29 OCT	15 NOV 76	
1975 102S		8636	USSR	29 OCT	20 JAN 77	
1975 102T		8637	USSR	29 OCT	4 APR 77	
1975 102U		8638	USSR	29 OCT	14 MAR 76	
1975 102V		8639	USSR	29 OCT	4 DEC 76	
1975 102W		8640	USSR	29 OCT	15 NOV 76	
1975 102X		8641	USSR	29 OCT	30 JUN 77	
1975 102Y		8642	USSR	29 OCT	15 NOV 76	
1975 102Z		8643	USSR	29 OCT	4 DEC 76	
1975 102AA		8644	USSR	29 OCT	8 JAN 77	
1975 102AB		8647	USSR	29 OCT	5 JUN 78	
1975 102AC		8648	USSR	29 OCT	18 APR 79	
1975 102AD		8649	USSR	29 OCT	18 JUN 77	
1975 102AF		8650	USSR	29 OCT	27 MAR 76	
1975 102AG		8651	USSR	29 OCT	16 MAR 77	
1975 102AH		8652	USSR	29 OCT	20 NOV 76	
1975 102AJ		8653	USSR	29 OCT	13 DEC 76	
1975 102AK		8654	USSR	29 OCT	15 NOV 76	
1975 102AL		8655	USSR	29 OCT	26 JAN 77	
1975 102AM		8656	USSR	29 OCT	30 OCT 77	
1975 102AN		8657	USSR	29 OCT	13 DEC 76	

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DECAVED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 102AN		8711	USSR	29 OCT	14 DEC 76	
1975 102AP		8712	USSR	29 OCT	1 MAY 77	
1975 102AQ		8713	USSR	29 OCT	1 APR 76	
1975 102AR		8714	USSR	29 OCT	20 NOV 76	
1975 102AS		8715	USSR	29 OCT	9 FEB 77	
1975 102AT		8716	USSR	29 OCT	4 DEC 76	
1975 102AU		8717	USSR	29 OCT	23 FEB 77	
1975 102AV		8718	USSR	29 OCT	13 DEC 76	
1975 102AW		8719	USSR	29 OCT	13 DEC 76	
1975 102AX		8720	USSR	29 OCT	25 FEB 77	
1975 102AY		8721	USSR	29 OCT	3 MAR 76	
1975 102AZ		8722	USSR	29 OCT	7 DEC 76	
1975 102BA		8723	USSR	29 OCT	14 APR 77	
1975 102BB		8724	USSR	29 OCT	15 NOV 76	
1975 102BC		8725	USSR	29 OCT	2 APR 76	
1975 102BD		8726	USSR	29 OCT	20 APR 76	
1975 102BE		8727	USSR	29 OCT	15 NOV 76	
1975 102BF		8728	USSR	29 OCT	29 MAR 76	
1975 102BG		8729	USSR	29 OCT	8 JAN 77	
1975 102BH		8730	USSR	29 OCT	13 DEC 76	
1975 102BJ		8731	USSR	29 OCT	5 NOV 77	
1975 102BK		8732	USSR	29 OCT	8 SEP 76	
1975 102BL		8733	USSR	29 OCT	8 JAN 77	
1975 102BM		8734	USSR	29 OCT	27 JAN 77	
1975 102BN		8735	USSR	29 OCT	25 APR 76	
1975 102BP		8736	USSR	29 OCT	9 JUN 77	
1975 102BQ		9563	USSR	29 OCT	27 NOV 76	
1975 104A	COSMOS 779	8420	USSR	4 NOV	18 NOV 75	
1975 104B		8422	USSR	4 NOV	10 NOV 75	
1975 104C		8428	USSR	4 NOV	19 NOV 75	
1975 104D		8429	USSR	4 NOV	17 NOV 75	
1975 105B		8426	USSR	14 NOV	15 DEC 75	
1975 105C		8427	USSR	14 NOV	5 DEC 75	
1975 106A		8430	USSR	17 NOV	16 FEB 76	
1975 106B		8431	USSR	17 NOV	20 NOV 75	
1975 107A	SOYUZ 20	8440	US	20 NOV	10 JUN 81	
1975 107B	EXPLORER 55	8441	US	20 NOV	19 MAR 76	
1975 108A		8442	USSR	21 NOV	3 DEC 75	
1975 108B	COSMOS 780	8443	USSR	21 NOV	27 NOV 75	
1975 108C		8446	USSR	21 NOV	22 NOV 75	
1975 108D		8460	USSR	21 NOV	11 DEC 75	
1975 108E		8461	USSR	21 NOV	2 DEC 75	
1975 109A		8444	USSR	21 NOV	26 NOV 80	
1975 109B		8445	USSR	21 NOV	20 DEC 80	
1975 109C		8447	USSR	21 NOV	28 JUN 78	
1975 109D		8448	USSR	21 NOV	25 NOV 77	
1975 109E		8449	USSR	21 NOV	9 OCT 77	
1975 109F		8776	USSR	21 NOV	18 NOV 77	
1975 109G		8777	USSR	21 NOV	14 JUL 79	
1975 109H		9693	USSR	21 NOV	11 SEP 77	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 109J		9994	USSR	21 NOV	11 FEB 78	
1975 109K		9995	USSR	21 NOV	12 JAN 78	
1975 109L		10433	USSR	21 NOV	19 MAY 78	
1975 110A	COSMOS 782	8450	USSR	25 NOV	15 DEC 75	
1975 110B		8451	USSR	25 NOV	23 DEC 75	
1975 110C		8485	USSR	25 NOV	31 DEC 75	
1975 110D		8487	USSR	25 NOV	10 FEB 76	
1975 110E		8518	USSR	25 NOV	26 JAN 76	
1975 111A	MAO 4	8452	PRC	26 NOV	29 DEC 75	
1975 111B		8453	PRC	26 NOV	22 DEC 75	
1975 111C		8454	PRC	26 NOV	29 NOV 75	
1975 111D		8455	PRC	26 NOV	28 NOV 75	
1975 111E		8456	PRC	26 NOV	28 NOV 75	
1975 111F		8457	PRC	26 NOV	28 NOV 75	
1975 113A	COSMOS 784	8463	USSR	3 DEC	15 DEC 75	
1975 113B		8464	USSR	3 DEC	7 DEC 75	
1975 113C		8465	USSR	3 DEC	4 DEC 75	
1975 113D		8466	USSR	3 DEC	8 DEC 75	
1975 113E		8481	USSR	3 DEC	15 DEC 75	
1975 113F		8484	USSR	3 DEC	20 DEC 75	
1975 113G		8485	USSR	3 DEC	21 DEC 75	
1975 114A		8467	US	4 DEC	1 APR 76	
1975 114B		8468	US	4 DEC	1 MAY 78	
1975 114C		8469	US	4 DEC	6 DEC 75	
1975 114D		8470	US	4 DEC	3 JUN 76	
1975 115A	INTERCOSMOS 14	8471	USSR	11 DEC	27 FEB 83	
1975 115B		8472	USSR	11 DEC	28 NOV 82	
1975 115C		8474	USSR	11 DEC	11 NOV 78	
1975 115D		8475	USSR	11 DEC	30 MAY 87	
1975 115E		8765	USSR	11 DEC	13 APR 81	
1975 115F		8766	USSR	11 DEC	29 MAY 78	
1975 116B		8477	USSR	12 DEC	14 DEC 75	
1975 116C		8480	USSR	12 DEC	5 FEB 76	
1975 117B		8478	US	13 DEC	7 AUG 76	
1975 117C		8479	US	13 DEC	10 NOV 82	
1975 118B		8483	US	14 DEC	19 DEC 75	
1975 119A	MAO 5	8488	PRC	16 DEC	27 JAN 76	
1975 119B		8491	PRC	16 DEC	10 JAN 76	
1975 120A	COSMOS 786	8489	USSR	16 DEC	29 DEC 75	
1975 120B		8490	USSR	16 DEC	21 DEC 75	
1975 120C		8523	USSR	16 DEC	3 JAN 76	
1975 120D		8524	USSR	16 DEC	29 DEC 75	
1975 120E		8529	USSR	16 DEC	30 DEC 75	
1975 121B		8493	USSR	17 DEC	14 JAN 76	
1975 121C		8494	USSR	17 DEC	11 JAN 76	
1975 121D		8529	USSR	17 DEC	13 OCT 86	
1975 122B		8511	USSR	22 DEC	22 FEB 75	
1975 122C		8512	USSR	22 DEC	9 FEB 76	
1975 123B		8514	USSR	22 DEC	22 DEC 75	
1975 123C		8515	USSR	22 DEC	25 DEC 75	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 125A	MOLNIYA 3-4	8521	USSR	27 DEC	12 AUG 86	
1975 125B		8522	USSR	27 DEC	23 JAN 76	
1975 125C		8525	USSR	27 DEC	19 JAN 76	
1975 125D		8526	USSR	27 DEC	28 DEC 75	
1975 125E		8527	USSR	27 DEC	8 JAN 76	
1975 125F		8600	USSR	27 DEC	30 JUL 86	
1976 LAUNCHES						
1976 001A	COSMOS 787	8530	USSR	6 JAN	12 DEC 80	
1976 001B		8531	USSR	6 JAN	15 MAR 81	
1976 001C		8549	USSR	6 JAN	20 OCT 77	
1976 001D		8550	USSR	6 JAN	24 MAR 77	
1976 001E		9731	USSR	6 JAN	15 JUL 78	
1976 001F		9790	USSR	6 JAN	5 AUG 77	
1976 001G		9791	USSR	6 JAN	1 DEC 77	
1976 001H		9792	USSR	6 JAN	12 DEC 77	
1976 001J		9837	USSR	6 JAN	27 AUG 77	
1976 001K		9838	USSR	6 JAN	30 JUL 77	
1976 002A	COSMOS 788	8551	USSR	7 JAN	20 JAN 76	
1976 002B		8552	USSR	7 JAN	14 JAN 76	
1976 002C		8553	USSR	7 JAN	12 JAN 76	
1976 002D		8588	USSR	7 JAN	27 JAN 76	
1976 002E		8589	USSR	7 JAN	23 JAN 76	
1976 002F		8590	USSR	7 JAN	20 JAN 76	
1976 004B		8586	US	17 JAN	14 FEB 76	
1976 004C		8537	US	17 JAN	14 APR 76	
1976 004D		8598	US	17 JAN	17 MAY 77	
1976 005B		8602	USSR	22 JAN	2 APR 76	
1976 006C		8603	USSR	22 JAN	19 APR 76	
1976 007A	COSMOS 790	8604	USSR	22 JAN	12 NOV 80	
1976 007B		8605	USSR	22 JAN	9 DEC 80	
1976 009A	COSMOS 799	8615	USSR	29 JAN	10 FEB 76	
1976 009B		8617	USSR	29 JAN	11 FEB 76	
1976 009C		8619	USSR	29 JAN	31 JAN 76	
1976 009D		8619	USSR	29 JAN	9 FEB 76	
1976 012A	COSMOS 801	8658	USSR	5 FEB	5 JAN 78	8G*
1976 012B		8659	USSR	5 FEB	24 MAR 77	
1976 012C		8660	USSR	5 FEB	14 APR 77	
1976 012D		8661	USSR	5 FEB	28 JUL 76	
1976 012E		8662	USSR	5 FEB	11 OCT 76	
1976 012F		8663	USSR	5 FEB	5 APR 76	
1976 012G		8664	USSR	5 FEB	11 OCT 76	
1976 012H		8665	USSR	5 FEB	11 OCT 76	
1976 012J		8665	USSR	5 FEB	17 AUG 76	
1976 012K		8667	USSR	5 FEB	14 JUN 76	
1976 012L		8668	USSR	5 FEB	18 MAR 76	
1976 012M		8669	USSR	5 FEB	11 OCT 76	
1976 012N		8670	USSR	5 FEB	11 OCT 76	
1976 012P		8671	USSR	5 FEB	28 JUL 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 012Q		8672	USSR	5 FEB	11 UCT 76	
1976 012R		8673	USSR	5 FEB	25 SEP 76	
1976 012S		8674	USSR	5 FEB	21 JUN 76	
1976 013A	COSMOS 802	8681	USSR	11 FEB	25 FEB 76	
1976 013B		8685	USSR	11 FEB	17 FEB 76	
1976 013C		8706	USSR	11 FEB	25 FEB 76	
1976 013D		8707	USSR	11 FEB	29 FEB 76	
1976 013E		8708	USSR	11 FEB	26 FEB 76	
1976 014B		8689	USSR	12 FEB	9 NOV 83	
1976 014C		8690	USSR	12 FEB	9 DEC 81	
1976 015A		8694	USSR	16 FEB	16 FEB 76	
1976 015B	COSMOS 804	8695	USSR	16 FEB	26 FEB 76	
1976 016A		8696	US	19 FEB	19 FEB 76	
1976 017D		8698	US	19 FEB	16 MAR 76	
1976 017E		8704	US	19 FEB	2 MAR 76	
1976 018A		8705	US	19 FEB	29 FEB 76	
1976 018B	COSMOS 805	8699	USSR	20 FEB	11 MAR 76	
1976 018C		8700	USSR	20 FEB	27 FEB 76	
1976 020A		8737	USSR	20 FEB	22 FEB 76	
1976 020B	COSMOS 806	8738	USSR	10 MAR	23 MAR 76	
1976 020C		8768	USSR	10 MAR	15 MAR 76	
1976 020D		8759	USSR	10 MAR	30 MAR 76	
1976 020E		8771	USSR	10 MAR	26 MAR 76	
1976 021A	MOLNIYA 1-33	8741	USSR	10 MAR	25 MAR 76	
1976 021B		8742	USSR	11 MAR	10 OCT 90	
1976 021C		8743	USSR	11 MAR	13 APR 76	
1976 021D		9411	USSR	11 MAR	5 APR 76	
1976 023E		8750	US	15 MAR	1 JUL 91	
1976 025A	COSMOS 809	8758	USSR	13 MAR	15 MAR 76	
1976 025B		8759	USSR	18 MAR	30 MAR 76	
1976 025C		8760	USSR	18 MAR	26 MAR 76	
1976 025D		8761	USSR	18 MAR	19 MAR 76	
1976 025A	MOLNIYA 1-34	8762	USSR	19 MAR	19 MAR 76	
1976 026C		8763	USSR	19 MAR	14 MAY 85	
1976 026C		8767	USSR	19 MAR	27 APR 76	
1976 026D		8792	USSR	19 MAR	7 MAY 76	
1976 027A		8770	US	19 MAR	2 APR 78	
1976 028A	COSMOS 810	8772	USSR	22 MAR	18 MAY 76	
1976 028B		8773	USSR	26 MAR	8 APR 76	
1976 028C		8796	USSR	26 MAR	1 APR 76	
1976 028D		8797	USSR	26 MAR	7 APR 76	
1976 028E		8798	USSR	26 MAR	10 APR 76	
1976 029B		8775	US	26 MAR	7 APR 75	
1976 029C		8793	US	26 MAR	2 DEC 76	
1976 030A	COSMOS 811	8781	USSR	31 MAR	28 JUN 73	
1976 030B		8782	USSR	31 MAR	12 APR 76	
1976 030C		8783	USSR	31 MAR	10 APR 76	
1976 030D		8303	USSR	31 MAR	13 APR 76	
1976 030E		8304	USSR	31 MAR	14 APR 76	
				31 MAR	15 APR 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 030F		8805	USSR	31 MAR	15 APR 76	
1976 031A	COSMOS 812	8794	USSR	6 APR	30 OCT 80	
1976 031B		8795	USSR	6 APR	5 JAN 81	
1976 031C		9836	USSR	6 APR	18 JUL 78	
1976 031D		9990	USSR	6 APR	27 FEB 78	
1976 033A		8801	USSR	9 APR	21 APR 76	
1976 033B	COSMOS 813	8802	USSR	9 APR	14 APR 76	
1976 034A		8806	USSR	13 APR	13 APR 76	
1976 034B	COSMOS 814	8807	USSR	13 APR	16 APR 76	
1976 035B		8809	US	22 APR	30 MAY 76	
1976 035C		8810	US	22 APR	18 OCT 77	
1976 036A		8811	USSR	28 APR	11 MAY 76	
1976 036B		8913	USSR	28 APR	2 MAY 76	
1976 036C		8915	USSR	28 APR	1 MAY 76	
1976 036D		8816	USSR	28 APR	1 MAY 76	
1976 036E		8817	USSR	28 APR	3 MAY 76	
1976 036F		8830	USSR	28 APR	20 MAY 76	
1976 036G		8831	USSR	28 APR	13 MAY 76	
1976 036H		8841	USSR	28 APR	15 MAY 76	
1976 037A		8812	USSR	28 APR	24 NOV 79	
1976 037B	COSMOS 816	8814	USSR	28 APR	16 NOV 79	
1976 037C		8885	USSR	28 APR	12 JUL 77	
1976 037D		8886	USSR	28 APR	26 JUL 77	
1976 037E		9396	USSR	28 APR	12 JUN 77	
1975 037F		9397	USSR	28 APR	17 SEP 77	
1976 037G		9428	USSR	28 APR	9 AUG 77	
1976 037H		9429	USSR	28 APR	10 AUG 77	
1976 037J		9430	USSR	28 APR	29 AUG 77	
1976 037K		9431	USSR	28 APR	24 AUG 77	
1976 037L		9432	USSR	28 APR	20 SEP 77	
1976 037M		9433	USSR	28 APR	19 AUG 77	
1976 037N		9475	USSR	28 APR	2 SEP 77	
1976 037P		9476	USSR	28 APR	16 SEP 77	
1976 037Q		9485	USSR	28 APR	28 OCT 77	
1976 037R		9487	USSR	28 APR	7 SEP 77	
1976 037S		9488	USSR	28 APR	27 SEP 77	
1976 037T		9489	USSR	28 APR	24 SEP 77	
1976 037U		9490	USSR	28 APR	15 SEP 77	
1976 037V		9507	USSR	28 APR	1 AUG 77	
1976 037W		9508	USSR	28 APR	17 SEP 77	
1976 037X		9511	USSR	28 APR	12 OCT 77	
1976 037Y		9512	USSR	28 APR	3 SEP 77	
1976 037Z		9513	USSR	28 APR	17 SEP 77	
1976 037AA		9514	USSR	28 APR	17 OCT 77	
1976 0398		8821	US	4 MAY	22 SEP 91	
1976 040A	COSMOS 817	8823	USSR	5 MAY	18 MAY 76	
1976 040B		8824	USSR	5 MAY	10 MAY 76	
1976 040C		8825	USSR	5 MAY	6 MAY 76	
1976 040D		8848	USSR	5 MAY	24 MAY 76	
1976 040E		8849	USSR	5 MAY	19 MAY 76	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 040F		8850	USSR	5 MAY	18 MAY 76	
1976 041B		8834	USSR	12 MAY	5 AUG 76	
1976 041C		8837	USSR	12 MAY	8 SEP 76	
1976 041E		8847	USSR	12 MAY	4 JUL 76	
1976 044A	COSMOS 818	8851	USSR	18 MAY	7 MAR 77	
1976 044B		8852	USSR	18 MAY	28 OCT 76	
1976 045A	COSMOS 819	8853	USSR	20 MAY	1 JUN 76	
1976 045B		8854	USSR	20 MAY	30 MAY 76	
1976 045C		8855	USSR	20 MAY	22 MAY 76	
1976 046A	COSMOS 820	8856	USSR	21 MAY	2 JUN 76	
1976 046B		8857	USSR	21 MAY	24 MAY 76	
1976 046C		8858	USSR	21 MAY	21 MAY 76	
1976 046D		8869	USSR	21 MAY	4 JUN 76	
1976 046E		8870	USSR	21 MAY	10 JUN 76	
1976 048A	COSMOS 821	8862	USSR	26 MAY	8 JUN 76	
1976 048B		8863	USSR	26 MAY	7 JUN 76	
1976 048C		8864	USSR	26 MAY	2 JUN 76	
1976 048D		8875	USSR	26 MAY	14 JUN 75	
1976 048E		8876	USSR	26 MAY	9 JUN 76	
1976 048F		8879	USSR	26 MAY	9 JUN 76	
1976 049A	COSMOS 822	8865	USSR	28 MAY	8 AUG 78	
1976 049B		8866	USSR	28 MAY	23 DEC 77	
1976 052A	COSMOS 824	8877	USSR	8 JUN	21 JUN 76	
1976 052B		8878	USSR	8 JUN	20 JUN 76	
1976 052C		8880	USSR	8 JUN	16 JUN 76	
1976 052D		8881	USSR	8 JUN	10 JUN 76	
1976 052E		8905	USSR	8 JUN	27 JUN 76	
1976 052F		8906	USSR	8 JUN	23 JUN 76	
1976 052G		8907	USSR	8 JUN	22 JUN 76	
1976 053B		8883	US	10 JUN	25 AUG 77	
1976 053C		8887	US	10 JUN	2 JUL 76	
1976 053D		8888	US	10 JUN	36 JUN 76	
1976 053E		8902	US	10 JUN	1 JUL 76	
1976 055A	COSMOS 833	8898	USSR	16 JUN	29 JUN 76	
1976 055B		8899	USSR	16 JUN	23 JUN 76	
1976 055C		8900	USSR	16 JUN	17 JUN 76	
1976 055D		8901	USSR	16 JUN	21 JUN 76	
1976 055E		8920	USSR	16 JUN	8 JUL 76	
1976 055F		8921	USSR	16 JUN	1 JUL 76	
1976 055G		8926	USSR	16 JUN	30 JUN 76	
1976 056A	INTERCOSMOS 15	8903	USSR	19 JUN	18 NOV 79	
1976 056B		8904	USSR	22 JUN	15 JAN 80	
1976 057A	SALYUT 5	8911	USSR	22 JUN	8 AUG 77	
1976 057B		8912	USSR	22 JUN	30 JUN 76	
1976 057C		8913	USSR	22 JUN	24 JUN 76	
1976 057D		9059	USSR	22 JUN	13 AUG 76	
1976 057E		9060	USSR	22 JUN	13 AUG 76	
1976 057F		9275	USSR	22 JUN	17 AUG 76	
1976 057G		9276	USSR	22 JUN	5 SEP 75	
1976 057H		9277	USSR	22 JUN	5 SEP 76	

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13 SEP 76	22 AUG 76	6 JUL 76	30 JUN 76	30 JUN 76	12 JUL 76	4 JUL 76	20 JUL 76	14 JUL 76	16 JUL 76	18 NOV 83	5 AUG 76	21 JUL 76	20 JUL 76	26 SEP 82	23 AUG 77	3 JUL 76	13 SEP 77	14 AUG 77	10 APR 78	23 JUL 77	1 NOV 77	25 MAR 78	15 NOV 77	8 AUG 78	2 DEC 77	3 NOV 77	15 APR 78	20 SEP 77	13 FEB 78	12 MAR 78	16 NOV 77	3 OCT 77	19 SEP 78	18 APR 78	23 SEP 77	27 JUL 77	3 MAR 78	23 JUL 77	5 SEP 77	29 OCT 77	20 SEP 77	25 OCT 77	3 JUL 78	19 JUN 79	17 AUG 77	18 APR 78	3 SEP 77	27 AUG 77	22 SEP 77
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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 063AM		10110	USSR	2 JUL	3 SEP 79	
1976 063AN		10122	USSR	2 JUL	9 NOV 77	
1976 063AP		10123	USSR	2 JUL	18 AUG 77	
1976 063AQ		10124	USSR	2 JUL	17 AUG 77	
1976 063AR		10125	USSR	2 JUL	28 JUL 77	
1976 063AS		10126	USSR	2 JUL	12 JAN 78	
1976 064A	SOYUZ 21	8934	USSR	6 JUL	24 AUG 76	E*
1976 064B		8935	USSR	6 JUL	9 JUL 76	
1976 065A		9006	US	8 JUL	13 DEC 76	
1976 065B		9007	US	8 JUL	24 APR 86	
1976 065D		9010	US	8 JUL	10 JUL 76	
1976 066B		9012	US	8 JUL	10 JUL 76	
1976 067AL		10467	USSR	8 JUL	3 JUN 82	
1976 068A	COSMOS 340	9019	USSR	14 JUL	26 JUL 76	
1976 068B		9020	USSR	14 JUL	25 JUL 76	
1976 068C		9021	USSR	14 JUL	17 JUL 76	
1976 071A	COSMOS 843	9043	USSR	21 JUL	21 JUL 76	
1976 071B		9045	USSR	21 JUL	23 JUL 76	
1976 072A	COSMOS 944	9046	USSR	22 JUL	30 AUG 76	
1976 072B		9049	USSR	22 JUL	30 JUL 76	
1976 072C		9064	USSR	22 JUL	2 AUG 76	8K*
1976 072D		9065	USSR	22 JUL	2 AUG 76	
1976 072E		9066	USSR	22 JUL	2 AUG 76	
1976 072F		9067	USSR	22 JUL	2 AUG 76	
1976 072G		9068	USSR	22 JUL	2 AUG 76	
1976 072H		9059	USSR	22 JUL	2 AUG 76	
1976 072J		9070	USSR	22 JUL	2 AUG 76	
1976 072K		9071	USSR	22 JUL	2 AUG 76	
1976 072L		9072	USSR	22 JUL	2 AUG 76	
1976 072M		9073	USSR	22 JUL	2 AUG 76	
1976 072N		9074	USSR	22 JUL	2 AUG 76	
1976 072P		9075	USSR	22 JUL	2 AUG 76	
1976 072Q		9076	USSR	22 JUL	2 AUG 76	
1976 072R		9077	USSR	22 JUL	2 AUG 76	
1976 072S		9078	USSR	22 JUL	2 AUG 76	
1976 072T		9079	USSR	22 JUL	2 AUG 76	
1976 072U		9080	USSR	22 JUL	2 AUG 76	
1976 072V		9081	USSR	22 JUL	2 AUG 76	
1976 072W		9082	USSR	22 JUL	2 AUG 76	
1976 072X		9083	USSR	22 JUL	2 AUG 76	
1976 072Y		9084	USSR	22 JUL	2 AUG 76	
1976 072Z		9085	USSR	22 JUL	2 AUG 76	
1976 072AA		9086	USSR	22 JUL	2 AUG 76	
1976 072AB		9037	USSR	22 JUL	2 AUG 76	
1976 072AC		9048	USSR	22 JUL	2 AUG 76	
1976 072AD		9069	USSR	22 JUL	2 AUG 76	
1976 072AE		9090	USSR	22 JUL	2 AUG 76	
1976 072AF		9091	USSR	22 JUL	2 AUG 76	
1976 072AG		9092	USSR	22 JUL	2 AUG 76	
1976 072AH		9093	USSR	22 JUL	2 AUG 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072AJ		9094	USSR	22 JUL	2 AUG 76	
1976 072AK		9095	USSR	22 JUL	2 AUG 76	
1976 072AL		9096	USSR	22 JUL	2 AUG 76	
1976 072AM		9097	USSR	22 JUL	2 AUG 76	
1976 072AN		9098	USSR	22 JUL	2 AUG 76	
1976 072AP		9099	USSR	22 JUL	2 AUG 76	
1976 072AQ		9100	USSR	22 JUL	2 AUG 76	
1976 072AR		9101	USSR	22 JUL	2 AUG 76	
1976 072AS		9102	USSR	22 JUL	2 AUG 76	
1976 072AT		9103	USSR	22 JUL	2 AUG 76	
1976 072AU		9104	USSR	22 JUL	2 AUG 76	
1976 072AV		9105	USSR	22 JUL	2 AUG 76	
1976 072AW		9106	USSR	22 JUL	2 AUG 76	
1976 072AX		9107	USSR	22 JUL	2 AUG 76	
1976 072AY		9108	USSR	22 JUL	2 AUG 76	
1976 072AZ		9109	USSR	22 JUL	2 AUG 76	
1976 072BA		9110	USSR	22 JUL	2 AUG 76	
1976 072BB		9111	USSR	22 JUL	2 AUG 76	
1976 072BC		9112	USSR	22 JUL	2 AUG 76	
1976 072BD		9113	USSR	22 JUL	2 AUG 76	
1976 072BE		9114	USSR	22 JUL	2 AUG 76	
1976 072BF		9115	USSR	22 JUL	2 AUG 76	
1976 072BG		9116	USSR	22 JUL	2 AUG 76	
1976 072BH		9117	USSR	22 JUL	2 AUG 76	
1976 072BJ		9118	USSR	22 JUL	2 AUG 76	
1976 072BK		9119	USSR	22 JUL	2 AUG 76	
1976 072BL		9120	USSR	22 JUL	2 AUG 76	
1976 072BM		9121	USSR	22 JUL	2 AUG 76	
1976 072BN		9122	USSR	22 JUL	2 AUG 76	
1976 072BP		9123	USSR	22 JUL	2 AUG 76	
1976 072BQ		9124	USSR	22 JUL	2 AUG 76	
1976 072BR		9125	USSR	22 JUL	2 AUG 76	
1976 072BS		9126	USSR	22 JUL	2 AUG 76	
1976 072BT		9127	USSR	22 JUL	2 AUG 76	
1976 072BU		9128	USSR	22 JUL	2 AUG 76	
1976 072BV		9129	USSR	22 JUL	2 AUG 76	
1976 072BW		9130	USSR	22 JUL	2 AUG 76	
1976 072BX		9131	USSR	22 JUL	2 AUG 76	
1976 072BY		9132	USSR	22 JUL	2 AUG 76	
1976 072BZ		9133	USSR	22 JUL	2 AUG 76	
1976 072CA		9134	USSR	22 JUL	2 AUG 76	
1976 072CB		9135	USSR	22 JUL	2 AUG 76	
1976 072CC		9136	USSR	22 JUL	2 AUG 76	
1976 072CD		9137	USSR	22 JUL	2 AUG 76	
1976 072CE		9138	USSR	22 JUL	2 AUG 76	
1976 072CF		9139	USSR	22 JUL	2 AUG 76	
1976 072CG		9140	USSR	22 JUL	2 AUG 76	
1976 072CH		9141	USSR	22 JUL	2 AUG 76	
1976 072CJ		9142	USSR	22 JUL	2 AUG 76	
1976 072CK		9143	USSR	22 JUL	2 AUG 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072CL		9144	USSR	22 JUL	2 AUG 76	
1976 072CM		9145	USSR	22 JUL	2 AUG 76	
1976 072CN		9146	USSR	22 JUL	2 AUG 76	
1976 072CP		9147	USSR	22 JUL	2 AUG 76	
1976 072CQ		9148	USSR	22 JUL	2 AUG 76	
1976 072CR		9149	USSR	22 JUL	2 AUG 76	
1976 072CS		9150	USSR	22 JUL	2 AUG 76	
1976 072CT		9151	USSR	22 JUL	2 AUG 76	
1976 072CU		9152	USSR	22 JUL	2 AUG 76	
1976 072CV		9153	USSR	22 JUL	2 AUG 76	
1976 072CW		9154	USSR	22 JUL	2 AUG 76	
1976 072CX		9155	USSR	22 JUL	2 AUG 76	
1976 072CY		9156	USSR	22 JUL	2 AUG 76	
1976 072CZ		9157	USSR	22 JUL	2 AUG 76	
1976 072DA		9158	USSR	22 JUL	2 AUG 76	
1976 072DB		9159	USSR	22 JUL	2 AUG 76	
1976 072DC		9160	USSR	22 JUL	2 AUG 76	
1976 072DD		9161	USSR	22 JUL	2 AUG 76	
1976 072DE		9162	USSR	22 JUL	2 AUG 76	
1976 072DF		9163	USSR	22 JUL	2 AUG 76	
1976 072DG		9164	USSR	22 JUL	2 AUG 76	
1976 072DH		9165	USSR	22 JUL	2 AUG 76	
1976 072DJ		9166	USSR	22 JUL	2 AUG 76	
1976 072DK		9167	USSR	22 JUL	2 AUG 76	
1976 072DL		9168	USSR	22 JUL	2 AUG 76	
1976 072DM		9169	USSR	22 JUL	2 AUG 76	
1976 072DN		9170	USSR	22 JUL	2 AUG 76	
1976 072DP		9171	USSR	22 JUL	2 AUG 76	
1976 072DQ		9172	USSR	22 JUL	2 AUG 76	
1976 072DR		9173	USSR	22 JUL	2 AUG 76	
1976 072DS		9174	USSR	22 JUL	2 AUG 76	
1976 072DT		9175	USSR	22 JUL	2 AUG 76	
1976 072DU		9176	USSR	22 JUL	2 AUG 76	
1976 072DV		9177	USSR	22 JUL	2 AUG 76	
1976 072DW		9178	USSR	22 JUL	2 AUG 76	
1976 072DX		9179	USSR	22 JUL	2 AUG 76	
1976 072DY		9180	USSR	22 JUL	2 AUG 76	
1976 072DZ		9181	USSR	22 JUL	2 AUG 76	
1976 072EA		9182	USSR	22 JUL	2 AUG 76	
1976 072EB		9183	USSR	22 JUL	2 AUG 76	
1976 072EC		9184	USSR	22 JUL	2 AUG 76	
1976 072ED		9185	USSR	22 JUL	2 AUG 76	
1976 072EE		9186	USSR	22 JUL	2 AUG 76	
1976 072EF		9187	USSR	22 JUL	2 AUG 76	
1976 072EG		9188	USSR	22 JUL	2 AUG 76	
1976 072EH		9189	USSR	22 JUL	2 AUG 76	
1976 072EJ		9190	USSR	22 JUL	2 AUG 76	
1976 072EK		9191	USSR	22 JUL	2 AUG 76	
1976 072EL		9192	USSR	22 JUL	2 AUG 76	
1976 072EM		9193	USSR	22 JUL	2 AUG 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1976 072EN		9194	USSR	22 JUL	2 AUG 76	
1976 072EP		9195	USSR	22 JUL	2 AUG 76	
1975 072EQ		9196	USSR	22 JUL	2 AUG 76	
1976 072ER		9197	USSR	22 JUL	2 AUG 76	
1976 072ES		9198	USSR	22 JUL	2 AUG 76	
1976 072ET		9199	USSR	22 JUL	2 AUG 76	
1976 072EU		9200	USSR	22 JUL	2 AUG 76	
1976 072EV		9201	USSR	22 JUL	2 AUG 76	
1976 072EW		9202	USSR	22 JUL	2 AUG 76	
1975 072EX		9203	USSR	22 JUL	2 AUG 76	
1976 072EY		9204	USSR	22 JUL	2 AUG 76	
1976 072EZ		9205	USSR	22 JUL	2 AUG 76	
1976 072FA		9206	USSR	22 JUL	2 AUG 76	
1976 072FB		9207	USSR	22 JUL	2 AUG 76	
1976 072FC		9208	USSR	22 JUL	2 AUG 76	
1976 072FD		9209	USSR	22 JUL	2 AUG 76	
1976 072FE		9210	USSR	22 JUL	2 AUG 76	
1976 072FF		9211	USSR	22 JUL	2 AUG 76	
1975 072FG		9212	USSR	22 JUL	2 AUG 76	
1976 072FH		9213	USSR	22 JUL	2 AUG 76	
1976 072FJ		9217	USSR	22 JUL	2 AUG 76	
1976 072FK		9218	USSR	22 JUL	5 AUG 76	
1976 072FL		9219	USSR	22 JUL	5 AUG 76	
1976 072FM		9220	USSR	22 JUL	5 AUG 76	
1976 072FN		9221	USSR	22 JUL	5 AUG 76	
1976 072FP		9222	USSR	22 JUL	5 AUG 76	
1976 072FQ		9223	USSR	22 JUL	5 AUG 76	
1976 072FR		9224	USSR	22 JUL	5 AUG 76	
1976 072FS		9225	USSR	22 JUL	5 AUG 76	
1975 072FT		9226	USSR	22 JUL	5 AUG 76	
1976 072FU		9227	USSR	22 JUL	5 AUG 76	
1976 072FV		9228	USSR	22 JUL	5 AUG 76	
1976 072FW		9229	USSR	22 JUL	5 AUG 76	
1976 072FX		9230	USSR	22 JUL	5 AUG 76	
1976 072FY		9231	USSR	22 JUL	5 AUG 76	
1976 072FZ		9232	USSR	22 JUL	5 AUG 76	
1976 072GA		9233	USSR	22 JUL	5 AUG 76	
1976 072GB		9234	USSR	22 JUL	5 AUG 76	
1976 072GC		9235	USSR	22 JUL	5 AUG 76	
1976 072GD		9236	USSR	22 JUL	5 AUG 76	
1976 072GE		9237	USSR	22 JUL	5 AUG 76	
1976 072GF		9238	USSR	22 JUL	5 AUG 76	
1976 072GG		9239	USSR	22 JUL	5 AUG 76	
1976 072GH		9240	USSR	22 JUL	5 AUG 76	
1975 072GJ		9241	USSR	22 JUL	5 AUG 76	
1975 072GK		9242	USSR	22 JUL	5 AUG 76	
1975 072GL		9243	USSR	22 JUL	5 AUG 76	
1976 072GM		9244	USSR	22 JUL	5 AUG 76	
1975 072GN		9245	USSR	22 JUL	5 AUG 76	
1975 072GP		9246	USSR	22 JUL	5 AUG 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072GQ		9247	USSR	22 JUL	5 AUG 76	
1976 072GR		9248	USSR	22 JUL	5 AUG 76	
1976 072GS		9249	USSR	22 JUL	5 AUG 76	
1976 072GT		9250	USSR	22 JUL	5 AUG 76	
1976 072GU		9251	USSR	22 JUL	5 AUG 76	
1976 072GV		9252	USSR	22 JUL	5 AUG 76	
1976 072GW		9253	USSR	22 JUL	5 AUG 76	
1976 072GX		9254	USSR	22 JUL	5 AUG 76	
1976 072GY		9255	USSR	22 JUL	5 AUG 76	
1976 072GZ		9256	USSR	22 JUL	5 AUG 76	
1976 072HA		9257	USSR	22 JUL	5 AUG 76	
1976 072HB		9258	USSR	22 JUL	5 AUG 75	
1976 072HC		9259	USSR	22 JUL	5 AUG 76	
1976 072HD		9260	USSR	22 JUL	5 AUG 76	
1976 072HE		9261	USSR	22 JUL	5 AUG 76	
1976 072HF		9262	USSR	22 JUL	5 AUG 76	
1976 072HG		9263	USSR	22 JUL	5 AUG 76	
1976 072HH		9264	USSR	22 JUL	5 AUG 76	
1976 072HJ		9265	USSR	22 JUL	5 AUG 76	
1976 072HK		9266	USSR	22 JUL	5 AUG 76	
1976 072HL		9331	USSR	22 JUL	13 AUG 76	
1976 072HM		9332	USSR	22 JUL	13 AUG 76	
1976 072HN		9333	USSR	22 JUL	13 AUG 76	
1976 072HN		9334	USSR	22 JUL	13 AUG 76	
1976 072HP		9335	USSR	22 JUL	13 AUG 76	
1976 072HQ		9336	USSR	22 JUL	13 AUG 76	
1976 072HR		9337	USSR	22 JUL	13 AUG 76	
1976 072HS		9338	USSR	22 JUL	13 AUG 76	
1976 072HT		9339	USSR	22 JUL	13 AUG 76	
1976 072HU		9340	USSR	22 JUL	13 AUG 76	
1976 072HV		9341	USSR	22 JUL	13 AUG 76	
1976 072HX		9342	USSR	22 JUL	13 AUG 76	
1976 072HY		9343	USSR	22 JUL	13 AUG 76	
1976 072HZ		9344	USSR	22 JUL	13 AUG 76	
1976 072JA		9345	USSR	22 JUL	13 AUG 76	
1976 072JB		9346	USSR	22 JUL	13 AUG 76	
1976 072JC		9347	USSR	22 JUL	13 AUG 76	
1976 072JD		9348	USSR	22 JUL	13 AUG 76	
1976 072JE		9349	USSR	22 JUL	13 AUG 76	
1976 072JF		9350	USSR	22 JUL	13 AUG 76	
1976 072JG		9351	USSR	22 JUL	13 AUG 76	
1976 072JH		9352	USSR	22 JUL	13 AUG 76	
1976 072JI		9353	USSR	22 JUL	13 AUG 76	
1976 072JJ		9354	USSR	22 JUL	13 AUG 76	
1976 072JK		9355	USSR	22 JUL	13 AUG 76	
1976 072JL		9356	USSR	22 JUL	13 AUG 76	
1976 072JM		9357	USSR	22 JUL	13 AUG 76	
1976 072JN		9358	USSR	22 JUL	13 AUG 76	
1976 072JP		9359	USSR	22 JUL	13 AUG 76	
1976 072JQ		9360	USSR	22 JUL	13 AUG 76	
1976 072JR						

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 072JS		9361	USSR	22 JUL	13 AUG 76	
1976 072JT		9362	USSR	22 JUL	13 AUG 76	
1976 072JU		9363	USSR	22 JUL	13 AUG 76	
1976 072JV		9364	USSR	22 JUL	13 AUG 76	
1976 072JW		9365	USSR	22 JUL	13 AUG 76	
1976 072JX		9366	USSR	22 JUL	13 AUG 76	
1976 072JY		9367	USSR	22 JUL	13 AUG 76	
1976 072JZ		9368	USSR	22 JUL	13 AUG 76	
1976 072KA		9369	USSR	22 JUL	13 AUG 76	
1976 072KB		9370	USSR	22 JUL	13 AUG 76	
1976 072KC		9371	USSR	22 JUL	13 AUG 76	
1976 072KD		9372	USSR	22 JUL	13 AUG 76	
1976 072KE		9373	USSR	22 JUL	13 AUG 76	
1976 072KF		9374	USSR	22 JUL	13 AUG 76	
1976 072KG		9375	USSR	22 JUL	13 AUG 76	
1976 072KH		9376	USSR	22 JUL	13 AUG 76	
1976 072KJ		9377	USSR	22 JUL	13 AUG 76	
1976 074A	MOLNIYA 1-35	9381	USSR	22 JUL	13 AUG 76	
1976 074B		9049	USSR	23 JUL	29 MAY 87	
1976 074C		9050	USSR	23 JUL	2 OCT 76	
1976 074D		9051	USSR	23 JUL	18 SEP 76	
1976 074E		9052	USSR	23 JUL	1 SEP 76	
1976 075A	COSMOS 845	9269	USSR	23 JUL	9 SEP 91	
1976 075B		9053	USSR	27 JUL	15 NOV 80	
1976 075C		9054	USSR	27 JUL	26 FEB 81	
1976 075D		9058	USSR	27 JUL	18 JUL 78	
1976 075E		9267	USSR	27 JUL	14 OCT 73	
1976 075F		9268	USSR	27 JUL	17 FEB 79	
1976 075G		9665	USSR	27 JUL	18 JUL 78	
1976 075H		9718	USSR	27 JUL	27 MAR 78	
1976 076A	INTERCOSMOS 16	9719	USSR	27 JUL	24 JUN 78	
1976 076B		9055	USSR	27 JUL	10 JUL 79	
1976 076C		9056	USSR	27 JUL	21 FEB 80	
1976 0778A		10753	US	29 JUL	2 JAN 82	
1976 079A		9214	USSR	4 AUG	17 AUG 75	
1976 079B	COSMOS 847	9215	USSR	4 AUG	11 AUG 76	
1976 079C		9216	USSR	4 AUG	5 AUG 76	
1976 079D		9376	USSR	4 AUG	23 AUG 76	
1976 079E		9377	USSR	4 AUG	18 AUG 76	
1976 081A		9272	USSR	9 AUG	18 AUG 76	
1976 081B	LUNA 24	9273	USSR	9 AUG	9 AUG 76	
1976 081C		9274	USSR	9 AUG	15 AUG 75	
1976 081D		9278	USSR	9 AUG	14 AUG 76	
1976 081E		9384	USSR	9 AUG	22 AUG 76	
1976 082A		9280	USSR	12 AUG	25 AUG 76	
1976 082B	LUNA 24 DESCENT CRAFT COSMOS 848	9281	USSR	12 AUG	24 AUG 76	
1976 082C		9328	USSR	12 AUG	17 AUG 76	
1976 082D		9374	USSR	12 AUG	1 SEP 76	
1976 082E		9375	USSR	12 AUG	24 AUG 76	
1976 083A		9382	USSR	18 AUG	24 APR 78	
1976 083B	COSMOS 849	9393	USSR	18 AUG	2 NOV 77	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 083C		9407	USSR	18 AUG	16 FEB 77	
1976 084A	COSMOS 850	9387	USSR	26 AUG	16 MAY 77	
1976 084B		9388	USSR	26 AUG	14 JAN 77	
1976 085A	COSMOS 851	9389	USSR	27 AUG	5 AUG 89	
1976 086A	COSMOS 852	9391	USSR	28 AUG	10 SEP 76	
1976 086B		9392	USSR	28 AUG	2 SEP 76	
1976 086C		9393	USSR	28 AUG	29 AUG 76	
1976 086D		9412	USSR	28 AUG	16 SEP 76	
1976 086E		9413	USSR	28 AUG	11 SEP 76	
1976 086F		9414	USSR	28 AUG	11 SEP 76	
1976 087A	MAO 6	9394	PRC	30 AUG	25 NOV 78	
1976 087B		9395	PRC	30 AUG	4 FEB 78	
1976 088A	COSMOS 853	9398	USSR	1 SEP	31 DEC 76	
1976 088B		9399	USSR	1 SEP	10 OCT 76	
1976 088C		9400	USSR	1 SEP	20 MAY 77	
1976 088D		9402	USSR	1 SEP	9 DEC 76	
1976 089A	TIP 3	9403	US	1 SEP	30 MAY 81	
1976 089B		9404	US	1 SEP	29 JUN 78	
1976 089C		9409	US	1 SEP	1 MAR 78	
1976 089D		9410	US	1 SEP	17 MAY 78	
1976 090A	COSMOS 854	9405	USSR	3 SEP	16 SEP 76	
1976 090B		9406	USSR	3 SEP	7 SEP 76	
1976 090C		9422	USSR	3 SEP	19 SEP 76	
1976 090D		9423	USSR	3 SEP	17 SEP 76	
1976 091D		9474	US	11 SEP	20 SEP 80	
1976 091E		9483	US	11 SEP	24 AUG 83	
1976 092B		9417	USSR	11 SEP	14 SEP 76	
1976 092C		9418	USSR	11 SEP	12 SEP 76	
1976 092D		9440	USSR	11 SEP	19 JUL 77	
1976 092E		9441	USSR	11 SEP	20 MAY 77	
1976 093A		9421	USSR	15 SEP	23 SEP 76	
1976 093B		9424	USSR	15 SEP	20 SEP 76	
1976 093C		9425	USSR	15 SEP	16 SEP 76	
1976 094A		9426	US	15 SEP	5 NOV 76	
1976 094B		9427	US	15 SEP	17 SEP 76	
1976 095A	COSMOS 855	9433	USSR	21 SEP	3 OCT 76	
1976 095B		9434	USSR	21 SEP	2 OCT 76	
1976 095C		9445	USSR	21 SEP	6 OCT 76	
1976 095D		9446	USSR	21 SEP	8 OCT 76	
1976 096A	COSMOS 856	9435	USSR	22 SEP	5 OCT 76	
1976 096B		9436	USSR	22 SEP	30 SEP 76	
1976 096C		9437	USSR	22 SEP	23 SEP 76	
1976 096D		9447	USSR	22 SEP	8 OCT 76	
1976 096E		9448	USSR	22 SEP	16 OCT 76	
1976 097A	COSMOS 857	9439	USSR	24 SEP	7 OCT 76	
1976 097B		9442	USSR	24 SEP	29 SEP 76	
1976 097C		9449	USSR	24 SEP	15 OCT 76	
1976 097D		9450	USSR	24 SEP	8 OCT 76	
1976 097E		9451	USSR	24 SEP	9 OCT 76	
1976 097F		9470	USSR	24 SEP	11 OCT 76	

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INTER- NATIONAL DESIGNATION		NAME	DECEASED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)							
1976 099A		COSMOS 859	9471	USSR	10 OCT	21 OCT 76	
1976 099B			9472	USSR	10 OCT	15 OCT 76	
1976 099C			9473	USSR	10 OCT	11 OCT 76	
1976 099D			9491	USSR	10 OCT	24 OCT 76	
1976 099E			9492	USSR	10 OCT	25 OCT 76	
1976 100A		SOYUZ 23	9477	USSR	14 OCT	16 OCT 76	
1976 100B			9480	USSR	14 OCT	16 OCT 76	
1976 101B			9479	US	14 OCT	15 NOV 76	
1976 101C			9493	US	14 OCT	1 NOV 76	
1976 101D			9498	US	14 OCT	4 NOV 76	
1976 101E			9542	US	14 OCT	12 MAY 77	
1976 103B			9531	USSR	17 OCT	29 DEC 76	
1976 103C			9537	USSR	17 OCT	14 NOV 76	
1976 103D			9538	USSR	17 OCT	15 NOV 76	
1976 103E			9539	USSR	17 OCT	12 NOV 76	
1976 104B			9633	USSR	21 OCT	21 OCT 76	
1976 104C			9631	USSR	21 OCT	4 FEB 77	
1976 104D			9632	USSR	21 OCT	25 DEC 76	
1976 105B			9496	USSR	22 OCT	27 DEC 76	
1976 105C			9497	USSR	22 OCT	10 DEC 76	
1976 105A		COSMOS 863	9499	USSR	25 OCT	5 NOV 76	
1976 106B			9500	USSR	25 OCT	1 NOV 76	
1976 106C			9501	USSR	25 OCT	29 OCT 76	
1976 106D			9502	USSR	25 OCT	26 OCT 76	
1976 106E			9521	USSR	25 OCT	11 NOV 76	
1976 106F			9522	USSR	25 OCT	7 NOV 76	
1976 106G			9524	USSR	25 OCT	7 NOV 76	
1976 106H			9527	USSR	25 OCT	9 NOV 76	
1976 106J			9528	USSR	25 OCT	10 NOV 76	
1976 106K			9529	USSR	25 OCT	7 NOV 76	
1976 107B			9504	USSR	26 OCT	29 OCT 76	
1976 107C			9505	USSR	26 OCT	27 OCT 76	
1976 107D			9540	USSR	26 OCT	26 JUN 77	
1976 107E			9541	USSR	26 OCT	20 MAY 77	
1976 109A		COSMOS 865	9515	USSR	1 NOV	13 NOV 76	
1976 109B			9516	USSR	1 NOV	14 NOV 76	
1976 109C			9517	USSR	1 NOV	5 NOV 76	
1976 109D			9519	USSR	1 NOV	7 NOV 76	
1976 109E			9520	USSR	1 NOV	22 NOV 76	
1976 109F			9523	USSR	1 NOV	10 NOV 76	
1976 109G			9525	USSR	1 NOV	10 FEB 77	
1976 109H			9526	USSR	1 NOV	5 FEB 77	
1976 110A		COSMOS 866	9532	USSR	11 NOV	23 NOV 76	
1976 110B			9533	USSR	11 NOV	14 NOV 76	
1976 110C			9534	USSR	11 NOV	16 NOV 76	
1976 110D			9535	USSR	11 NOV	14 NOV 76	
1976 110E			9536	USSR	11 NOV	13 NOV 76	
1976 110F			9551	USSR	11 NOV	24 NOV 76	
1976 110G			9553	USSR	11 NOV	23 NOV 76	
1976 111A		COSMOS 867	9552	USSR	23 NOV	6 DEC 76	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1975 LAUNCHES (CONT.)						
1975 111B		9554	USSR	23 NOV	1 FEB 77	
1976 111C		9555	USSR	23 NOV	16 DEC 76	
1976 111D		9556	USSR	23 NOV	6 DEC 76	
1976 111E		9556	USSR	23 NOV	11 DEC 76	
1975 111F		9582	USSR	23 NOV	7 JAN 78	
1976 111G		9583	USSR	23 NOV	26 MAY 77	
1976 111H		9584	USSR	23 NOV	20 MAR 77	
1976 111J		9585	USSR	23 NOV	7 JUL 77	
1976 111K		9585	USSR	23 NOV	5 MAR 77	
1976 1123		9553	USSR	25 NOV	23 JAN 77	
1976 112C		9559	USSR	25 NOV	5 JAN 77	
1975 112U		9560	USSR	25 NOV	24 JAN 77	
1976 113A	COSMOS 868	9561	USSR	26 NOV	8 JUL 78	
1976 113B		9562	USSR	26 NOV	27 NOV 76	
1976 114A	COSMOS 869	9564	USSR	29 NOV	17 DEC 76	
1976 114B		9565	USSR	29 NOV	6 DEC 76	
1976 115A	COSMOS 870	9573	USSR	2 DEC	20 DEC 80	
1976 115B		9576	USSR	2 DEC	28 FEB 81	
1976 115C		9577	USSR	2 DEC	10 FEB 78	
1976 115D		9991	USSR	2 DEC	30 APR 78	
1976 115E		9992	USSR	2 DEC	11 JUN 78	
1976 115F		9993	USSR	2 DEC	7 MAR 80	
1976 116A	MULNIYA 2-16	9574	USSR	2 DEC	21 FEB 91	
1976 116B		9575	USSR	2 DEC	4 MAR 77	
1976 116C		9578	USSR	2 DEC	7 FEB 77	
1976 116D		5579	USSR	2 DEC	19 SEP 91	
1976 116E		9580	USSR	2 DEC	13 FEB 77	
1976 116F		9531	USSR	2 DEC	11 JAN 77	
1976 117A	MAO 7	9587	PRC	7 DEC	2 JAN 77	
1976 117B		9596	PRC	7 DEC	29 DEC 76	
1976 117C		9597	PRC	7 DEC	9 DEC 76	
1975 119A	COSMOS 879	9599	USSR	9 DEC	22 DEC 76	
1976 119B		9600	USSR	9 DEC	12 DEC 76	
1976 119C		9602	USSR	9 DEC	3 JAN 77	
1976 119D		9603	USSR	9 DEC	15 DEC 76	
1976 120A	COSMOS 880	9601	USSR	9 DEC	8 OCT 79	
1976 120C		9605	USSR	9 DEC	1 NOV 81	
1976 120D		11178	USSR	9 DEC	12 JUN 81	
1976 120E		11179	USSR	9 DEC	6 MAR 80	
1976 120F		11180	USSR	9 DEC	25 FEB 79	
1976 120G		11131	USSR	9 DEC	20 JUL 79	
1976 120H		11182	USSR	9 DEC	27 OCT 79	
1976 120J		11183	USSR	9 DEC	14 APR 79	
1976 120K		11184	USSR	9 DEC	6 JUL 79	
1976 120L		11185	USSR	9 DEC	5 APR 79	
1976 120M		11136	USSR	9 DEC	13 NOV 80	
1976 120N		11187	USSR	9 DEC	2 APR 79	
1976 120P		11138	USSR	9 DEC	5 MAR 79	
1976 120Q		11139	USSR	9 DEC	23 FEB 79	
1976 120R		11140	USSR	9 DEC	26 MAR 79	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 120S		11191	USSR	9 DEC	16 JUN 79	
1976 120T		11192	USSR	9 DEC	5 JUL 79	
1976 120V		11194	USSR	9 DEC	12 JUL 79	
1976 120W		11195	USSR	9 DEC	23 FEB 79	
1976 120X		11196	USSR	9 DEC	7 APR 79	
1976 120Y		11197	USSR	9 DEC	31 MAR 79	
1976 120Z		11198	USSR	9 DEC	15 MAR 79	
1976 120AA		11199	USSR	9 DEC	18 FEB 79	
1976 120AB		11200	USSR	9 DEC	10 JUL 79	
1976 120AC		11201	USSR	9 DEC	9 DEC 79	
1976 120AD		11202	USSR	9 DEC	13 JUL 79	
1976 120AE		11203	USSR	9 DEC	10 SEP 79	
1976 120AH		11206	USSR	9 DEC	26 FEB 79	
1976 120AK		11208	USSR	9 DEC	11 NOV 79	
1976 120AL		11209	USSR	9 DEC	1 DEC 82	
1976 120AN		11211	USSR	9 DEC	29 MAR 79	
1976 120AS		11215	USSR	9 DEC	24 MAY 79	
1976 120AV		11218	USSR	9 DEC	5 FEB 80	
1976 120AW		11219	USSR	9 DEC	19 NOV 82	
1976 120AZ		11222	USSR	9 DEC	16 JUN 79	
1976 1208B		11224	USSR	9 DEC	3 JUN 79	
1976 1208C		11225	USSR	9 DEC	19 AUG 79	
1976 121A	COSMOS 881	9606	USSR	15 DEC	15 DEC 76	
1976 121B	COSMOS 882	9607	USSR	15 DEC	15 DEC 76	
1976 121C		9608	USSR	15 DEC	20 DEC 76	
1976 121D		9609	USSR	15 DEC	23 DEC 76	
1976 121E		9611	USSR	15 DEC	26 DEC 76	
1976 121F		9612	USSR	15 DEC	21 DEC 76	
1976 123A		9614	USSR	17 DEC	29 DEC 76	
1976 123B		9623	USSR	17 DEC	23 DEC 76	
1976 123C		9624	USSR	17 DEC	31 JAN 77	
1976 123D		9639	USSR	17 DEC	31 DEC 76	
1976 123E		9640	USSR	17 DEC	1 JAN 77	
1976 123F		9646	USSR	17 DEC	3 JAN 77	
1976 124A		9615	USSR	17 DEC	14 OCT 79	
1976 124B		9625	USSR	17 DEC	5 SEP 79	
1976 124C		9626	USSR	17 DEC	29 OCT 77	
1976 124D		9897	USSR	17 DEC	22 NOV 77	
1976 124E		9901	USSR	17 DEC	11 NOV 77	
1976 124F		9914	USSR	17 DEC	9 DEC 77	
1976 124G		9915	USSR	17 DEC	29 NOV 77	
1976 124H		9916	USSR	17 DEC	16 NOV 77	
1976 124J		9917	USSR	17 DEC	5 NOV 77	
1976 124K		9918	USSR	17 DEC	20 NOV 77	
1976 124L		9919	USSR	17 DEC	10 NOV 77	
1976 124M		9920	USSR	17 DEC	22 DEC 77	
1976 124N		9927	USSR	17 DEC	16 NOV 77	
1976 124P		9923	USSR	17 DEC	9 DEC 77	
1976 124Q		9924	USSR	17 DEC	14 DEC 77	
1976 124R		9925	USSR	17 DEC	22 NOV 77	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1976 LAUNCHES (CONT.)						
1976 124S		9926	USSR	17 DEC	1 DEC 77	
1976 124T		9999	USSR	17 DEC	17 OCT 77	
1976 124U		10391	USSR	17 DEC	11 JAN 78	
1976 125A		9627	US	19 DEC	28 JAN 79	
1976 125B		9628	US	19 DEC	9 MAY 77	
1976 125C		9629	US	19 DEC	23 FEB 77	
1976 125D		9630	US	19 DEC	9 FEB 77	
1976 125E		9633	USSR	27 DEC	30 DEC 75	
1976 126B		9644	USSR	27 DEC	31 DEC 76	
1976 126C		9645	USSR	27 DEC	14 JAN 77	
1976 126D		9719	USSR	27 DEC	11 JUL 78	
1976 126Q		9720	USSR	27 DEC	9 OCT 81	
1976 126R		9817	USSR	27 DEC	12 JUL 82	
1976 126AD		9825	USSR	27 DEC	12 MAR 82	
1976 126AM		9952	USSR	27 DEC	11 OCT 80	
1976 126AS		9959	USSR	27 DEC	20 JUN 82	
1976 126AZ		9635	USSR	28 DEC	6 FEB 90	
1976 127A	MOLNIYA 3-6	9636	USSR	28 DEC	16 MAR 77	
1976 127B		9641	USSR	28 DEC	15 FEB 77	
1976 127C		9642	USSR	28 DEC	23 FEB 77	
1976 127D		9647	USSR	28 DEC	30 SEP 87	
1976 127E						
1977 LAUNCHES						
1977 001A	COSMOS 888	9658	USSR	6 JAN	19 JAN 77	
1977 001B		9559	USSR	6 JAN	11 JAN 77	
1977 001C		9660	USSR	6 JAN	11 JAN 77	
1977 001D		9732	USSR	6 JAN	23 JAN 77	
1977 001E		9733	USSR	6 JAN	21 JAN 77	
1977 001F		9734	USSR	6 JAN	20 JAN 77	
1977 003A	COSMOS 889	9735	USSR	20 JAN	1 FEB 77	
1977 003B		9736	USSR	20 JAN	1 FEB 77	
1977 005C		9787	US	28 JAN	6 FEB 81	
1977 006A	COSMOS 891	9801	USSR	2 FEB	4 FEB 81	
1977 006B		9802	USSR	2 FEB	18 DEC 79	
1977 007B		9803	US	6 FEB	6 FEB 77	
1977 008A	SOYUZ 24	9804	USSR	7 FEB	25 FEB 77	
1977 008B		9805	USSR	7 FEB	12 FEB 77	
1977 008C		9806	USSR	7 FEB	12 FEB 77	
1977 009A	COSMOS 892	9812	USSR	9 FEB	22 FEB 77	
1977 009B		9813	USSR	9 FEB	15 FEB 77	
1977 009C		9814	USSR	9 FEB	10 FEB 77	
1977 009D		9845	USSR	9 FEB	26 FEB 77	
1977 009E		9847	USSR	9 FEB	24 FEB 77	
1977 009F		9849	USSR	9 FEB	23 FEB 77	
1977 009G		9851	USSR	9 FEB	23 FEB 77	
1977 010B		9830	USSR	11 FEB	13 MAR 77	
1977 010C		9831	USSR	11 FEB	2 MAR 77	
1977 010D		9832	USSR	11 FEB	27 FEB 77	
1977 011A	COSMOS 893	9833	USSR	15 FEB	6 OCT 84	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 0118		9634	USSR	15 FEB	5 NOV 77	
1977 011C		10486	USSR	15 FEB	18 MAR 78	
1977 0128		9942	JAPAN	19 FEB	21 MAR 79	
1977 0120		9844	JAPAN	19 FEB	15 MAY 78	
1977 0148		9859	JAPAN	23 FEB	14 NOV 91	
1977 016A	COSMOS 896	9857	USSR	3 MAR	16 MAR 77	
1977 0168		9858	USSR	3 MAR	4 MAR 77	
1977 016C		9865	USSR	3 MAR	25 MAR 77	
1977 0160		9869	USSR	3 MAR	17 MAR 77	
1977 016E		9870	USSR	3 MAR	17 MAR 77	
1977 016F		9873	USSR	3 MAR	24 MAR 77	
1977 016G		9874	USSR	3 MAR	23 MAR 77	
1977 016H		9875	USSR	3 MAR	21 MAR 77	
1977 017A	COSMOS 897	9860	USSR	10 MAR	23 MAR 77	
1977 0178		9861	USSR	10 MAR	15 MAR 77	
1977 017C		9876	USSR	10 MAR	31 MAR 77	
1977 017D		9877	USSR	10 MAR	27 MAR 77	
1977 017E		9878	USSR	10 MAR	26 MAR 77	
1977 017F		9879	USSR	10 MAR	20 MAY 77	
1977 017G		9885	USSR	10 MAR	27 MAR 77	
1977 0188		9864	US	10 MAR	25 APR 82	
1977 018C		9866	US	10 MAR	17 DEC 77	
1977 018D		9867	US	10 MAR	13 OCT 77	
1977 018E		9868	US	10 MAR	15 FEB 78	
1977 019A		9863	US	13 MAR	26 MAY 77	
1977 0198		10012	US	13 MAR	21 MAY 77	
1977 020A	COSMOS 898	9871	USSR	17 MAR	30 MAR 77	
1977 0208		9872	USSR	17 MAR	22 MAR 77	
1977 020C		9886	USSR	17 MAR	30 MAR 77	
1977 0200		9887	USSR	17 MAR	3 APR 77	
1977 0218		9881	USSR	24 MAR	19 APR 77	
1977 021C		9882	USSR	24 MAR	12 APR 77	
1977 022A	COSMOS 899	9883	USSR	24 MAR	19 OCT 80	
1977 0228		9884	USSR	24 MAR	25 DEC 80	
1977 022C		9900	USSR	24 MAR	11 APR 78	
1977 023A	COSMOS 900	9898	USSR	29 MAR	11 OCT 79	
1977 0238		9899	USSR	29 MAR	6 SEP 79	
1977 025A	COSMOS 901	9905	USSR	5 APR	28 JUN 78	
1977 0258		9906	USSR	5 APR	25 MAR 78	
1977 026A	COSMOS 902	9908	USSR	7 APR	20 APR 77	
1977 0268		9909	USSR	7 APR	9 APR 77	
1977 026C		9910	USSR	7 APR	10 APR 77	
1977 026D		9928	USSR	7 APR	20 APR 77	
1977 026E		9929	USSR	7 APR	23 APR 77	
1977 0278		9912	USSR	11 APR	6 JUN 77	
1977 027C		9913	USSR	11 APR	1 MAY 77	
1977 028A	COSMOS 904	9930	USSR	20 APR	4 MAY 77	
1977 0288		9935	USSR	20 APR	29 APR 77	
1977 029C		9936	USSR	20 APR	23 APR 77	
1977 0298		9932	US	20 APR	20 APR 77	

DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 029C		9933	US	20 APR	17 DEC 89	
1977 029D		9934	US	20 APR	20 APR 77	
1977 030A	COSMOS 905	9937	USSR	26 APR	26 MAY 77	
1977 030b		9939	USSR	26 APR	1 MAY 77	
1977 030C		9940	USSR	26 APR	14 MAY 77	
1977 030J		10023	USSR	26 APR	26 MAY 77	
1977 031A	COSMOS 906	9938	USSR	27 APR	23 MAR 80	
1977 032b		9942	USSR	28 APR	15 MAY 77	
1977 032C		9943	USSR	28 APR	15 MAY 77	
1977 033A	COSMOS 907	9944	USSR	5 MAY	16 MAY 77	
1977 033b		9945	USSR	5 MAY	13 MAY 77	
1977 033C		9946	USSR	5 MAY	6 MAY 77	
1977 033D		9947	USSR	5 MAY	6 MAY 77	
1977 033E		10004	USSR	5 MAY	17 MAY 77	
1977 033F		10005	USSR	5 MAY	20 MAY 77	
1977 033G		10006	USSR	5 MAY	24 MAY 77	
1977 034D		10003	US	12 MAY	14 MAY 77	
1977 035A	COSMOS 908	10007	USSR	17 MAY	31 MAY 77	
1977 035B		10008	USSR	17 MAY	21 MAY 77	
1977 035C		10009	USSR	17 MAY	22 MAY 77	
1977 035D		10027	USSR	17 MAY	3 JUN 77	
1977 037A	COSMOS 910	10014	USSR	23 MAY	23 MAY 77	
1977 037B		10015	USSR	23 MAY	27 MAY 77	
1977 037C		10018	USSR	23 MAY	24 MAY 77	
1977 040A	COSMOS 912	10021	USSR	26 MAY	8 JUN 77	
1977 040B		10022	USSR	26 MAY	31 MAY 77	
1977 040C		10026	USSR	26 MAY	27 MAY 77	
1977 040D		10035	USSR	26 MAY	12 JUN 77	
1977 040E		10036	USSR	26 MAY	18 JUN 77	
1977 042A	COSMOS 913	10028	USSR	30 MAY	29 DEC 79	BN*
1977 042B		10029	USSR	30 MAY	2 NOV 79	
1977 042C		10237	USSR	30 MAY	18 APR 78	
1977 042D		10238	USSR	30 MAY	18 APR 78	
1977 042E		10329	USSR	30 MAY	26 FEB 78	
1977 042F		10330	USSR	30 MAY	23 FEB 78	
1977 042G		10331	USSR	30 MAY	23 FEB 78	
1977 042H		10332	USSR	30 MAY	18 APR 78	
1977 042J		10333	USSR	30 MAY	11 MAR 78	
1977 042K		10334	USSR	30 MAY	15 FEB 79	
1977 042L		10335	USSR	30 MAY	15 FEB 78	
1977 042M		10336	USSR	30 MAY	4 FEB 78	
1977 042N		10337	USSR	30 MAY	23 FEB 78	
1977 042P		10349	USSR	30 MAY	18 APR 78	
1977 042Q		10350	USSR	30 MAY	15 MAR 78	
1977 042R		10419	USSR	30 MAY	18 JUN 73	
1977 042S		10487	USSR	30 MAY	22 MAR 78	
1977 042T		10488	USSR	30 MAY	18 APR 79	
1977 042U		10494	USSR	30 MAY	18 MAR 78	
1977 042V		10495	USSR	30 MAY	18 MAR 73	
1977 042W		10496	USSR	30 MAY	18 APR 78	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECAYED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)							
1977 042X		10497		USSR	30 MAY	27 MAR 78	
1977 043A	COSMOS 914	10030		USSR	31 MAY	13 JUN 77	
1977 043B		10031		USSR	31 MAY	11 JUN 77	
1977 043C		10032		USSR	31 MAY	16 JUN 77	
1977 043D		10045		USSR	31 MAY	18 JUN 77	
1977 043E		10046		USSR	31 MAY	2 JUL 77	
1977 045A	COSMOS 915	10038		USSR	8 JUN	21 JUN 77	
1977 045B		10039		USSR	8 JUN	11 JUN 77	
1977 045C		10073		USSR	8 JUN	25 JUN 77	
1977 045D		10074		USSR	8 JUN	23 JUN 77	
1977 045E		10084		USSR	8 JUN	23 JUN 77	
1977 046A	COSMOS 916	10040		USSR	10 JUN	21 JUN 77	
1977 046B		10041		USSR	10 JUN	1 JUL 77	
1977 046C		10042		USSR	10 JUN	29 JUN 77	
1977 046D		10043		USSR	10 JUN	18 JUN 77	
1977 046E		10044		USSR	10 JUN	25 JUN 77	
1977 046F		10088		USSR	10 JUN	27 JUN 77	
1977 046G		10090		USSR	10 JUN	1 JUL 77	
1977 047B		10060		USSR	16 JUN	17 AUG 77	
1977 047C		10066		USSR	16 JUN	14 JUL 77	
1977 048C		10063		US	16 JUN	12 JUL 77	
1977 048D		10067		US	16 JUN	29 JUN 77	
1977 048E		10075		US	16 JUN	11 JUL 77	
1977 049A	SIGNE 3	10064		FRANCE	17 JUN	20 JUN 79	
1977 049B		10069		USSR	17 JUN	5 FEB 80	
1977 050A	COSMOS 918	10065		USSR	17 JUN	18 JUN 77	
1977 050B		10068		USSR	17 JUN	18 JUN 77	
1977 051A	COSMOS 919	10070		USSR	18 JUN	28 AUG 78	
1977 051B		10071		USSR	18 JUN	21 APR 78	
1977 051C		10072		USSR	18 JUN	15 JUL 77	
1977 051D		10809		USSR	18 JUN	18 JUL 78	
1977 052A		10086		USSR	22 JUN	5 JUL 77	
1977 052B	COSMOS 920	10087		USSR	22 JUN	27 JUN 77	
1977 052C		10127		USSR	22 JUN	10 JUL 77	
1977 052D		10128		USSR	22 JUN	8 JUL 77	
1977 052E		10133		USSR	22 JUN	10 JUL 77	
1977 054B		10093		USSR	24 JUN	24 AUG 77	
1977 054C		10094		USSR	24 JUN	4 AUG 77	
1977 056A		10111		US	27 JUN	23 DEC 77	
1977 056B		10112		US	27 JUN	29 JUN 77	
1977 057C		10116		USSR	29 JUN	2 AUG 77	
1977 058A	COSMOS 922	10115		USSR	30 JUN	13 JUL 77	
1977 058B		10117		USSR	30 JUN	8 JUL 77	
1977 058C		10118		USSR	30 JUN	2 JUL 77	
1977 058D		10119		USSR	30 JUN	2 JUL 77	
1977 060A	COSMOS 924	10129		USSR	4 JUL	10 FEB 81	
1977 060B		10130		USSR	4 JUL	20 JAN 81	
1977 060C		10131		USSR	4 JUL	12 JAN 78	
1977 060D		10132		USSR	4 JUL	3 DEC 77	
1977 063A	COSMOS 927	10139		USSR	12 JUL	25 JUL 77	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 063B		10140	USSR	12 JUL	18 JUL 77	
1977 063C		10162	USSR	12 JUL	27 JUL 77	
1977 063D		10163	USSR	12 JUL	26 JUL 77	
1977 065C		10145	US	14 JUL	31 MAR 73	
1977 065D		10156	US	14 JUL	6 NOV 81	
1977 065E		10176	US	14 JUL	22 MAY 79	
1977 065L		10182	US	14 JUL	1 JAN 81	
1977 065R		10187	US	14 JUL	27 OCT 78	
1977 065T		10189	US	14 JUL	16 FEB 79	
1977 065V		10191	US	14 JUL	4 DEC 78	
1977 065X		10193	US	14 JUL	17 APR 79	
1977 065Z		10196	US	14 JUL	10 NOV 82	
1977 065AA		10197	US	14 JUL	18 JUL 81	
1977 065AC		10199	US	14 JUL	30 NOV 80	
1977 065AD		10200	US	14 JUL	15 MAY 81	
1977 065AJ		10205	US	14 JUL	9 AUG 81	
1977 065AN		10209	US	14 JUL	26 SEP 82	
1977 065AP		10210	US	14 JUL	17 NOV 81	
1977 065AS		10213	US	14 JUL	13 APR 81	
1977 065AU		10215	US	14 JUL	13 APR 81	
1977 065AV		10216	US	14 JUL	5 JUN 82	
1977 065AZ		10222	US	14 JUL	24 DEC 78	
1977 065BR		10224	US	14 JUL	20 JUN 81	
1977 0658C		10225	US	14 JUL	9 OCT 80	
1977 065BF		10228	US	14 JUL	11 MAR 81	
1977 065BJ		10231	US	14 JUL	20 JUL 82	
1977 065BP		10236	US	14 JUL	27 AUG 80	
1977 065BT		10242	US	14 JUL	29 APR 81	
1977 0658M		10245	US	14 JUL	4 NOV 77	
1977 0658Y		10247	US	14 JUL	9 AUG 79	
1977 0658Z		10248	US	14 JUL	14 FEB 79	
1977 065CE		10253	US	14 JUL	20 FEB 78	
1977 065CF		10254	US	14 JUL	4 JUN 81	
1977 065CH		10256	US	14 JUL	5 FEB 82	
1977 065CQ		10263	US	14 JUL	1 MAY 81	
1977 065CS		10265	US	14 JUL	22 JUN 80	
1977 065CU		10267	US	14 JUL	21 JAN 82	
1977 065CV		10268	US	14 JUL	13 AUG 79	
1977 065DA		10304	US	14 JUL	8 NOV 82	
1977 065DD		10307	US	14 JUL	6 JUN 81	
1977 065DE		10308	US	14 JUL	16 JUN 79	
1977 065DG		10310	US	14 JUL	11 JUL 80	
1977 065DR		10342	US	14 JUL	26 JAN 83	
1977 065DS		10343	US	14 JUL	14 OCT 78	
1977 065DT		10344	US	14 JUL	2 JUL 79	
1977 065DW		10347	US	14 JUL	6 JUL 81	
1977 065DZ		10390	US	14 JUL	6 DEC 81	
1977 065EA		10468	US	14 JUL	15 SEP 80	
1977 065EE		10472	US	14 JUL	16 MAR 81	
1977 065EF		10473	US	14 JUL	7 JAN 82	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 065EG		10474	US	14 JUL	12 JUN 78	
1977 065EH		10475	US	14 JUL	10 NOV 81	
1977 065EK		10477	US	14 JUL	10 DEC 81	
1977 065EQ		10482	US	14 JUL	10 NOV 82	
1977 065EP		10483	US	14 JUL	20 NOV 81	
1977 065ET		10624	US	14 JUL	27 JUN 80	
1977 065EU		10625	US	14 JUL	30 JUL 82	
1977 065FA		10631	US	14 JUL	8 OCT 80	
1977 065FE		10635	US	14 JUL	30 SEP 80	
1977 065FU		18643	US	14 JUL	27 NOV 88	
1977 066A	COSMOS 929	10146	USSR	17 JUL	2 FEB 78	
1977 066B		10147	USSR	17 JUL	29 JUL 77	
1977 066C		10148	USSR	17 JUL	24 JUL 77	
1977 067A	COSMOS 930	10149	USSR	19 JUL	12 MAY 80	
1977 068B		10151	USSR	20 JUL	22 SEP 77	
1977 068C		10152	USSR	20 JUL	17 AUG 77	
1977 068H		18528	USSR	20 JUL	2 JAN 89	
1977 069A	COSMOS 932	10153	USSR	20 JUL	2 AUG 77	
1977 069B		10154	USSR	20 JUL	24 JUL 77	
1977 069C		10170	USSR	20 JUL	3 AUG 77	
1977 069D		10171	USSR	20 JUL	3 AUG 77	
1977 070A	COSMOS 933	10157	USSR	22 JUL	1 NOV 78	
1977 070B		10158	USSR	22 JUL	7 JUN 78	
1977 071B		10160	USSR	23 JUL	26 JUL 77	
1977 071C		10161	USSR	23 JUL	26 JUL 77	
1977 071D		10276	USSR	23 JUL	5 JUN 78	
1977 071E		10277	USSR	23 JUL	25 MAR 78	
1977 072A	COSMOS 934	10164	USSR	27 JUL	9 AUG 77	
1977 072B		10165	USSR	27 JUL	5 AUG 77	
1977 072C		10166	USSR	27 JUL	2 AUG 77	
1977 072D		10174	USSR	27 JUL	17 AUG 77	
1977 072E		10175	USSR	27 JUL	10 AUG 77	
1977 072F		10195	USSR	27 JUL	12 AUG 77	
1977 073A	COSMOS 935	10168	USSR	29 JUL	11 AUG 77	
1977 073B		10169	USSR	29 JUL	3 AUG 77	
1977 074A	COSMOS 936	10172	USSR	3 AUG	22 AUG 77	
1977 074B		10173	USSR	3 AUG	28 AUG 77	
1977 074C		10274	USSR	3 AUG	5 SEP 77	
1977 074D		10275	USSR	3 AUG	8 OCT 77	
1977 075A	HEAD 1	10217	US	12 AUG	15 MAR 79	
1977 075B		10218	US	12 AUG	25 NOV 77	
1977 077A	COSMOS 937	10278	USSR	24 AUG	19 OCT 78	
1977 077B		10279	USSR	24 AUG	25 AUG 77	
1977 077C		10280	USSR	24 AUG	25 AUG 77	
1977 078A	COSMOS 938	10281	USSR	24 AUG	6 SEP 77	
1977 078B		10283	USSR	24 AUG	30 AUG 77	
1977 078C		10284	USSR	24 AUG	11 SEP 77	
1977 079D		10285	USSR	24 AUG	21 SEP 77	
1977 078E		10324	USSR	24 AUG	7 SEP 77	
1977 078F		10325	USSR	24 AUG	6 SEP 77	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 060C		10296	US	25 AUG	10 NOV 82	
1977 080D		10297	US	25 AUG	18 JAN 78	
1977 080E		10298	US	25 AUG	7 DEC 77	
1977 081A	COSMOS 947	10299	USSR	27 AUG	9 SEP 77	
1977 081B		10300	USSR	27 AUG	7 SEP 77	
1977 081C		10301	USSR	27 AUG	7 SEP 77	
1977 082B		10316	USSR	30 AUG	26 SEP 77	
1977 082C		10317	USSR	30 AUG	23 SEP 77	
1977 082D		10318	USSR	30 AUG	23 SEP 77	
1977 083A	COSMOS 948	10319	USSR	2 SEP	15 SEP 77	
1977 083B		10320	USSR	2 SEP	7 SEP 77	
1977 083C		10356	USSR	2 SEP	20 SEP 77	
1977 083D		10357	USSR	2 SEP	15 SEP 77	
1977 085A	COSMOS 949	10326	USSR	6 SEP	6 OCT 77	
1977 085B		10327	USSR	6 SEP	11 SEP 77	
1977 085C		10328	USSR	6 SEP	10 SEP 77	
1977 086A	COSMOS 950	10351	USSR	13 SEP	27 SEP 77	
1977 086B		10353	USSR	13 SEP	18 SEP 77	
1977 086C		10354	USSR	13 SEP	20 SEP 77	
1977 088B		10399	USSR	16 SEP	7 NOV 77	
1977 089C		10400	USSR	16 SEP	11 OCT 77	
1977 089A	COSMOS 953	10359	USSR	16 SEP	29 SEP 77	
1977 089B		10360	USSR	16 SEP	21 SEP 77	
1977 089C		10360	USSR	16 SEP	30 SEP 77	
1977 089D		10381	USSR	16 SEP	29 SEP 77	
1977 090A	COSMOS 954	10361	USSR	18 SEP	24 JAN 78	
1977 091C		10364	USSR	20 SEP	3 JUN 82	
1977 092B		10365	USSR	20 SEP	21 SEP 77	
1977 092C		10367	USSR	20 SEP	21 SEP 77	
1977 092D		10368	USSR	20 SEP	25 SEP 77	
1977 092E		10408	USSR	20 SEP	30 APR 78	
1977 092F		10484	USSR	20 SEP	18 JUN 78	
1977 093B		10371	USSR	22 SEP	29 OCT 77	
1977 093C		10372	USSR	22 SEP	23 OCT 77	
1977 093D		10373	USSR	22 SEP	28 SEP 77	
1977 094A		10374	US	23 SEP	8 DEC 77	
1977 095A	COSMOS 956	10375	USSR	24 SEP	27 JUN 82	
1977 095B		10378	USSR	24 SEP	1 NOV 82	
1977 096A	INTERCOSMOS 17	10376	USSR	24 SEP	8 NOV 79	
1977 096B		10377	USSR	24 SEP	11 SEP 79	
1977 094C		10379	USSR	24 SEP	8 APR 78	
1977 097A	SALYUT 6	10382	USSR	29 SEP	29 JUL 82	
1977 097B		10383	USSR	29 SEP	5 OCT 77	
1977 097C		10384	USSR	29 SEP	3 OCT 77	
1977 097D		10533	USSR	29 SEP	22 FEB 78	
1977 097E		10545	USSR	29 SEP	24 APR 78	
1977 097F		10547	USSR	29 SEP	12 MAY 78	
1977 097G		10548	USSR	29 SEP	25 MAR 78	
1977 097H		10553	USSR	29 SEP	27 MAY 78	
1977 097J		10595	USSR	29 SEP	14 MAY 78	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 097K		10597	USSR	29 SEP	21 MAR 78	
1977 097L		10598	USSR	29 SEP	8 FEB 78	
1977 097M		10685	USSR	29 SEP	6 MAR 79	
1977 097N		10686	USSR	29 SEP	6 MAR 78	
1977 097P		10687	USSR	29 SEP	6 MAR 78	
1977 097Q		10738	USSR	29 SEP	26 APR 78	
1977 097R		10740	USSR	29 SEP	15 JUN 78	
1977 097S		10743	USSR	29 SEP	17 JUN 78	
1977 097T		10781	USSR	29 SEP	29 MAY 78	
1977 097U		11032	USSR	29 SEP	21 OCT 78	
1977 097V		11033	USSR	29 SEP	14 OCT 78	
1977 097W		11034	USSR	29 SEP	3 DEC 78	
1977 097X		11035	USSR	29 SEP	26 NOV 78	
1977 097Y		11036	USSR	29 SEP	6 MAY 79	
1977 097Z		11091	USSR	29 SEP	14 APR 79	
1977 097AA		11092	USSR	19 SEP	12 DEC 78	
1977 097AB		11093	USSR	19 SEP	26 NOV 78	
1977 097AC		11094	USSR	29 SEP	28 JAN 79	
1977 097AD		11095	USSR	19 SEP	15 DEC 78	
1977 097AE		11096	USSR	29 SEP	30 JUL 79	
1977 097AF		11097	USSR	19 SEP	19 DEC 78	
1977 097AG		11100	USSR	19 SEP	16 FEB 79	
1977 097AH		11338	USSR	29 SEP	22 JUN 79	
1977 097AJ		11339	USSR	29 SEP	25 MAY 79	
1977 097AK		11340	USSR	29 SEP	3 MAY 79	
1977 097AL		11341	USSR	29 SEP	9 JUL 79	
1977 097AM		11342	USSR	29 SEP	25 MAY 79	
1977 097AN		11350	USSR	29 SEP	17 JUL 79	
1977 097AP		11431	USSR	29 SEP	4 SEP 79	
1977 097AQ		11432	USSR	29 SEP	5 OCT 79	
1977 097AR		11433	USSR	29 SEP	16 JUL 79	
1977 097AS		11434	USSR	29 SEP	27 NOV 79	
1977 097AT		11435	USSR	29 SEP	25 AUG 79	
1977 097AU		11467	USSR	29 SEP	23 OCT 79	
1977 097AV		11468	USSR	29 SEP	17 OCT 79	
1977 097AW		11469	USSR	29 SEP	23 OCT 79	
1977 097AX		11470	USSR	29 SEP	15 OCT 79	
1977 097AY		11471	USSR	29 SEP	16 MAR 80	
1977 097AZ		11472	USSR	29 SEP	26 OCT 79	
1977 097BA		11473	USSR	29 SEP	15 OCT 79	
1977 097BB		11480	USSR	29 SEP	15 OCT 79	
1977 097BC		11489	USSR	29 SEP	26 AUG 79	
1977 097BD		11493	USSR	29 SEP	31 DEC 79	
1977 097BE		11494	USSR	29 SEP	11 OCT 79	
1977 097BF		11495	USSR	29 SEP	21 DEC 79	
1977 097BG		11500	USSR	29 SEP	28 DEC 79	
1977 097BH		11501	USSR	29 SEP	11 SEP 79	
1977 097BJ		11502	USSR	29 SEP	21 DEC 79	
1977 097BK		11503	USSR	29 SEP	22 MAR 80	
1977 097BL		11504	USSR	29 SEP		

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 0978M		11508	USSR	29 SEP	20 OCT 79	
1977 0978N		11523	USSR	29 SEP	19 JAN 80	
1977 0978P		11563	USSR	29 SEP	9 NOV 79	
1977 0978Q		11572	USSR	29 SEP	27 OCT 79	
1977 0978R		11740	USSR	29 SEP	28 MAY 80	
1977 0978S		11832	USSR	29 SEP	5 SEP 80	
1977 0978T		11893	USSR	29 JUL	4 SEP 80	
1977 0978U		11930	USSR	29 SEP	15 OCT 80	
1977 0978V		11931	USSR	29 SEP	21 OCT 80	
1977 0978W		11934	USSR	29 SEP	8 SEP 80	
1977 0978X		11935	USSR	29 SEP	15 OCT 80	
1977 0978Y		11936	USSR	29 SEP	14 SEP 80	
1977 0978Z		11937	USSR	29 SEP	16 OCT 80	
1977 0979A		11942	USSR	29 SEP	14 SEP 80	
1977 0979B		11947	USSR	29 SEP	16 OCT 80	
1977 0979C		11955	USSR	29 SEP	1 OCT 80	
1977 0979D		11956	USSR	29 SEP	27 OCT 80	
1977 0979E		11957	USSR	29 SEP	21 OCT 80	
1977 0979F		11958	USSR	29 SEP	24 SEP 80	
1977 0979G		11966	USSR	29 SEP	23 NOV 80	
1977 0979H		11967	USSR	29 SEP	6 OCT 80	
1977 0979J		11972	USSR	29 SEP	3 NOV 80	
1977 0979K		11973	USSR	29 SEP	15 OCT 80	
1977 0979L		11974	USSR	29 SEP	13 NOV 80	
1977 0979M		11975	USSR	29 SEP	13 OCT 80	
1977 0979N		12090	USSR	29 SEP	26 JAN 81	
1977 0979P		12390	USSR	29 SEP	8 MAY 81	
1977 0979Q		12391	USSR	29 SEP	22 JUN 81	
1977 0979R		12392	USSR	29 SEP	29 APR 81	
1977 0979S		12393	USSR	29 SEP	25 APR 81	
1977 0979T		12394	USSR	29 SEP	5 MAY 81	
1977 0979U		12395	USSR	29 SEP	8 MAY 81	
1977 0979V		12398	USSR	29 SEP	27 JUN 81	
1977 0979W		12436	USSR	29 SEP	27 JUL 81	
1977 0979X		12437	USSR	29 SEP	6 JUL 81	
1977 0979Y		12438	USSR	29 SEP	12 JUN 81	
1977 0979Z		12439	USSR	29 SEP	6 JUL 81	
1977 0979A		12440	USSR	29 SEP	11 JUN 81	
1977 0979B		12441	USSR	29 SEP	24 MAY 81	
1977 0979C		12444	USSR	29 SEP	10 JUL 81	
1977 0979D		12476	USSR	29 SEP	22 JUL 81	
1977 0979E		12477	USSR	29 SEP	14 SEP 81	
1977 0979F		12478	USSR	29 SEP	21 JUL 81	
1977 0979G		12479	USSR	29 SEP	19 JUL 81	
1977 0979H		12488	USSR	29 SEP	9 SEP 81	
1977 0979J		12489	USSR	29 SEP	7 OCT 81	
1977 0979K		12493	USSR	29 SEP	9 SEP 81	
1977 098A		10385	USSR	30 SEP	13 OCT 77	
1977 098B		10386	USSR	30 SEP	5 OCT 77	
1977 098C		10387	USSR	30 SEP	13 OCT 77	

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INTER- NATIONAL DESIGNATION		DECAYED OBJECTS		LAUNCH		DECAY		NOTES
		NAME	CATALOG NUMBER	SOURCE				
1977 LAUNCHES (CONT.)								
1977 098D			10388	USSR	30 SEP	13 OCT 77		
1977 098E			10405	USSR	30 SEP	15 OCT 77		
1977 098F			10407	USSR	30 SEP	13 OCT 77		
1977 099A	SOYUZ 25		10401	USSR	9 OCT	11 OCT 77		AD*
1977 099B			10402	USSR	9 OCT	11 OCT 77		
1977 100A	COSMOS 958		10403	USSR	11 OCT	24 OCT 77		
1977 100B			10404	USSR	11 OCT	9 NOV 77		
1977 100C			10405	USSR	11 OCT	31 OCT 77		
1977 100D			10425	USSR	11 OCT	5 MAR 78		
1977 100E			10427	USSR	11 OCT	15 SEP 78		
1977 100F			10428	USSR	11 OCT	18 JUN 78		
1977 100G			10429	USSR	11 OCT	16 JAN 78		
1977 101A	COSMOS 959		10419	USSR	21 OCT	30 NOV 77		
1977 101B			10420	USSR	21 OCT	8 NOV 77		
1977 101C			10421	USSR	21 OCT	5 NOV 77		
1977 102A	ISEE 1		10422	US	22 OCT	26 SEP 87		
1977 102B	ISEE 2		10423	ESA	22 OCT	26 SEP 87		
1977 102C			10424	US	22 OCT	23 OCT 78		
1977 103A	COSMOS 960		10430	USSR	25 OCT	22 OCT 80		
1977 103B			10431	USSR	25 OCT	30 NOV 80		
1977 103C			10432	USSR	25 OCT	24 JUN 78		
1977 104A	COSMOS 961		10434	USSR	26 OCT	26 OCT 77		
1977 104B			10435	USSR	26 OCT	27 OCT 77		
1977 105B			10456	USSR	28 OCT	18 NOV 77		
1977 105C			10458	USSR	28 OCT	26 NOV 77		
1977 105D			10460	USSR	28 OCT	20 NOV 77		
1977 108C			10950	US	23 NOV	12 AUG 90		
1977 110A	COSMOS 964		10498	USSR	4 DEC	17 DEC 77		
1977 110B			10499	USSR	4 DEC	9 DEC 77		
1977 110C			10500	USSR	4 DEC	6 JAN 78		
1977 110D			10522	USSR	4 DEC	20 DEC 77		
1977 110E			10523	USSR	4 DEC	20 DEC 77		
1977 111A			10501	USSR	8 DEC	16 DEC 79		
1977 111B	COSMOS 965		10503	USSR	6 DEC	14 NOV 79		BQ*
1977 111C			10505	USSR	8 DEC	15 APR 78		
1977 111D			10682	USSR	8 DEC	17 APR 78		
1977 111E			10683	USSR	8 DEC	1 MAY 78		
1977 111F			10741	USSR	8 DEC	15 MAY 78		
1977 111G			10742	USSR	8 DEC	18 JUL 78		
1977 111H			10780	USSR	8 DEC	24 MAY 78		
1977 111J			10782	USSR	8 DEC	18 JUL 78		
1977 111K			10789	USSR	8 DEC	6 JUN 78		
1977 111L			10795	USSR	8 DEC	1 JUN 78		
1977 111M			10797	USSR	8 DEC	18 JUL 78		
1977 111N			10807	USSR	8 DEC	23 MAY 78		
1977 111P			10809	USSR	8 DEC	20 JUN 78		
1977 111Q			10814	USSR	8 DEC	18 JUN 78		
1977 111R			10815	USSR	8 DEC	8 JUL 79		
1977 111S			10816	USSR	8 DEC	6 JUL 78		
1977 111T			10817	USSR	8 DEC	20 JUN 78		

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1977 LAUNCHES (CONT.)						
1977 111U		10858	USSR	8 DEC	30 JUL 78	
1977 111V		10859	USSR	8 DEC	26 JUL 78	
1977 111W		10891	USSR	8 DEC	19 JUL 78	
1977 111X		10892	USSR	8 DEC	25 JUL 78	
1977 111Y		10908	USSR	8 DEC	4 AUG 78	
1977 111Z		10909	USSR	8 DEC	4 DEC 78	
1977 111AA		10910	USSR	8 DEC	4 DEC 78	
1977 111AB		10923	USSR	8 DEC	24 AUG 78	
1977 111AC		10924	USSR	8 DEC	17 AUG 78	
1977 113A	SOYUZ 26	10506	USSR	10 DEC	16 JAN 78	E*
1977 113B		10507	USSR	10 DEC	12 DEC 77	
1977 115A	COSMOS 966	10510	USSR	12 DEC	24 DEC 77	
1977 115B		10511	USSR	12 DEC	18 DEC 77	
1977 115C		10534	USSR	12 DEC	29 DEC 77	
1977 115D		10538	USSR	12 DEC	7 JAN 78	
1977 118U		11072	US	15 DEC	9 OCT 81	
1977 120A	COSMOS 969	10527	USSR	20 DEC	3 JAN 78	
1977 120B		10530	USSR	20 DEC	26 DEC 77	
1977 120C		10549	USSR	20 DEC	5 JAN 78	
1977 120D		10550	USSR	20 DEC	4 JAN 78	
1977 120E		10551	USSR	20 DEC	5 MAR 78	
1977 120F		10552	USSR	20 DEC	5 MAR 78	
1977 121A		10532	USSR	21 DEC	25 DEC 77	
1977 123C		10546	USSR	27 DEC	31 DEC 77	
1977 124A	COSMOS 973	10540	USSR	27 DEC	9 JAN 78	
1977 124B		10542	USSR	27 DEC	5 JAN 78	
1977 124C		10543	USSR	27 DEC	31 DEC 77	
1977 124D		10553	USSR	27 DEC	25 JAN 78	
1977 124E		10559	USSR	27 DEC	11 JAN 78	
1978 LAUNCHES						
1978 001A	COSMOS 974	10554	USSR	6 JAN	19 JAN 73	
1978 001B		10555	USSR	6 JAN	11 JAN 78	
1978 001C		10556	USSR	6 JAN	25 JAN 78	
1978 001D		10601	USSR	6 JAN	26 JAN 78	
1978 001E		10602	USSR	6 JAN	21 JAN 78	
1978 003A	SOYUZ 27	10560	USSR	10 JAN	16 MAR 78	
1978 003B		10583	USSR	10 JAN	13 JAN 78	
1978 005A	COSMOS 984	10592	USSR	13 JAN	26 JAN 78	
1978 006B	PROGRESS 1	10593	USSR	13 JAN	22 JAN 78	
1978 008A		10603	USSR	20 JAN	8 FEB 78	
1978 008B		10604	USSR	20 JAN	23 JAN 73	
1978 007A	MOLNIYA 3-9	10505	USSR	24 JAN	24 APR 90	
1978 007B		10606	USSR	24 JAN	12 MAR 78	
1978 009C		10508	USSR	24 JAN	3 MAR 78	
1978 009D		10610	USSR	24 JAN	8 MAR 78	
1978 009E		10802	USSR	24 JAN	10 OCT 90	
1978 010A	COSMOS 986	10607	USSR	24 JAN	7 FEB 78	
1978 010B		10609	USSR	24 JAN	28 JAN 79	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 011A	MAO 8	10611	PRC	26 JAN	7 FEB 78	
1978 011B		10612	PRC	26 JAN	6 FEB 78	
1978 012B		10638	US	26 JAN	21 FEB 78	
1978 013A	COSMOS 987	10639	USSR	31 JAN	14 FEB 78	
1978 013B		10640	USSR	31 JAN	4 FEB 78	
1978 013C		10641	USSR	31 JAN	5 FEB 78	
1978 013D		10670	USSR	31 JAN	17 FEB 78	
1978 013E		10671	USSR	31 JAN	20 FEB 78	
1978 014B		10665	JAPAN	4 FEB	12 FEB 79	
1978 014G		18816	JAPAN	4 FEB	10 NOV 88	
1978 015A	COSMOS 988	10666	USSR	8 FEB	20 FEB 78	
1978 015B		10667	USSR	8 FEB	17 FEB 78	
1978 015C		10668	USSR	8 FEB	5 MAR 78	
1978 015D		10678	USSR	8 FEB	22 FEB 78	
1978 015E		10679	USSR	8 FEB	2 MAR 78	
1978 015F		10680	USSR	8 FEB	11 MAR 78	
1978 015G		10681	USSR	8 FEB	24 FEB 78	
1978 016B		10724	US	9 FEB	31 AUG 82	
1978 016D		13998	US	9 FEB	21 JUN 89	
1978 017A	COSMOS 989	10672	USSR	14 FEB	28 FEB 78	
1978 017B		10673	USSR	14 FEB	17 FEB 78	
1978 017C		10690	USSR	14 FEB	1 MAR 78	
1978 017D		10691	USSR	14 FEB	28 FEB 78	
1978 023A	SOYUZ 28	10694	USSR	2 MAR	10 MAR 78	
1978 023B		10695	USSR	2 MAR	5 MAR 78	
1978 024B		10697	USSR	2 MAR	10 APR 78	
1978 024C		10698	USSR	2 MAR	9 APR 78	
1978 025A	COSMOS 992	10699	USSR	4 MAR	17 MAR 78	
1978 025B		10700	USSR	4 MAR	10 MAR 78	
1978 025C		10701	USSR	4 MAR	5 MAR 78	
1978 026AN		12197	US	5 MAR	5 FEB 82	
1978 026BW		12229	US	5 MAR	5 MAY 81	
1978 026CF		12238	US	5 MAR	15 FEB 82	
1978 026CG		12239	US	5 MAR	5 FEB 92	
1978 026CJ		12241	US	5 MAR	11 APR 82	
1978 026CR		12248	US	5 MAR	17 AUG 81	
1978 026CU		12251	US	5 MAR	18 FEB 81	
1978 026CV		12252	US	5 MAR	2 JAN 82	
1978 026CW		12253	US	5 MAR	13 DEC 81	
1978 026CY		12255	US	5 MAR	1 JUL 81	
1978 026DB		12258	US	5 MAR	1 JUL 81	
1978 026DH		12264	US	5 MAR	10 DEC 81	
1978 026DQ		12271	US	5 MAR	18 NOV 81	
1978 026DU		12275	US	5 MAR	27 DEC 81	
1978 026EA		12281	US	5 MAR	7 NOV 82	
1978 026EB		12282	US	5 MAR	29 APR 82	
1978 026EF		12285	US	5 MAR	14 OCT 81	
1978 027A	COSMOS 993	10725	USSR	10 MAR	23 MAR 78	
1978 027B		10726	USSR	10 MAR	14 MAR 78	
1978 027C		10727	USSR	10 MAR	12 MAR 78	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 027D		10739	USSR	10 MAR	24 MAR 78	
1978 029A		10733	US	16 MAR	11 SEP 78	
1978 029C		10737	US	16 MAR	17 MAR 78	
1978 030A	COSMOS 995	10735	USSR	17 MAR	30 MAR 78	
1978 030B		10736	USSR	17 MAR	20 MAR 78	
1978 032A	COSMOS 997	10770	USSR	30 MAR	30 MAR 78	
1978 032B	COSMOS 998	10771	USSR	30 MAR	30 MAR 78	
1978 032C		10772	USSR	30 MAR	2 APR 78	
1978 032D		10775	USSR	30 MAR	3 APR 78	
1978 033A	COSMOS 999	10773	USSR	30 MAR	12 APR 78	
1978 033B		10774	USSR	30 MAR	3 APR 78	
1978 033C		10798	USSR	30 MAR	13 APR 78	
1978 033D		10799	USSR	30 MAR	16 APR 78	
1978 033E		10800	USSR	30 MAR	24 APR 78	
1978 036A	COSMOS 1001	10783	USSR	4 APR	15 APR 78	
1978 036B		10784	USSR	4 APR	6 APR 78	
1978 036C		10804	USSR	4 APR	1 JUN 78	
1978 036D		10805	USSR	4 APR	2 MAY 78	
1978 036E		10806	USSR	4 APR	25 APR 78	
1978 036F		10810	USSR	4 APR	23 MAY 78	
1978 037A	COSMOS 1002	10785	USSR	6 APR	19 APR 78	
1978 037B		10786	USSR	6 APR	10 APR 78	
1978 037C		10790	USSR	6 APR	24 APR 78	
1978 037D		10791	USSR	6 APR	24 APR 78	
1978 040A	COSMOS 1003	10811	USSR	20 APR	4 MAY 78	
1978 040B		10812	USSR	20 APR	23 APR 78	
1978 040C		10813	USSR	20 APR	22 APR 78	
1978 040D		10821	USSR	20 APR	4 MAY 78	
1978 040E		10822	USSR	20 APR	4 MAY 78	
1978 041A	HCMM	10818	US	26 APR	22 DEC 81	
1978 041B		10819	US	26 APR	24 NOV 80	
1978 042B		10853	US	1 MAY	21 OCT 91	
1978 042D		10913	US	1 MAY	1 MAY 86	
1978 042E		10914	US	1 MAY	16 JUN 89	
1978 043A	COSMOS 1004	10846	USSR	5 MAY	18 MAY 78	
1978 043B		10847	USSR	5 MAY	9 MAY 78	
1978 043C		10848	USSR	5 MAY	9 MAY 78	
1978 043D		10849	USSR	5 MAY	9 MAY 78	
1978 043E		10850	USSR	5 MAY	14 MAY 78	
1978 043F		10851	USSR	5 MAY	8 JUN 78	
1978 043G		10852	USSR	5 MAY	16 JUN 78	
1978 046A	COSMOS 1006	10862	USSR	12 MAY	14 MAR 79	
1978 046B		10863	USSR	12 MAY	6 DEC 78	
1978 048A	COSMOS 1007	10895	USSR	16 MAY	29 MAY 78	
1978 048B		10896	USSR	16 MAY	20 MAY 78	
1978 048C		10897	USSR	16 MAY	18 MAY 78	
1978 048D		10921	USSR	16 MAY	31 MAY 78	
1978 048E		10922	USSR	16 MAY	3 JUL 78	
1978 049A	COSMOS 1008	10898	USSR	17 MAY	8 JAN 81	
1978 049B		10899	USSR	17 MAY	6 FEB 81	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 049C		10900	USSR	17 MAY	17 DEC 78	
1978 049D		10901	USSR	17 MAY	30 DEC 78	
1978 049E		10902	USSR	17 MAY	17 JUL 78	
1978 049F		10903	USSR	17 MAY	12 SEP 78	
1978 050A	COSMOS 1009	10904	USSR	19 MAY	19 MAY 78	
1978 050B		10905	USSR	19 MAY	5 JUN 78	
1978 050C		10906	USSR	19 MAY	18 JUL 78	
1978 050D		10907	USSR	19 MAY	23 MAY 78	
1978 052A	COSMOS 1010	10915	USSR	23 MAY	5 JUN 78	
1978 052B		10916	USSR	23 MAY	26 MAY 78	
1978 052C		10928	USSR	23 MAY	7 JUN 78	
1978 054A	COSMOS 1012	10919	USSR	25 MAY	7 JUN 78	
1978 054B		10920	USSR	25 MAY	28 MAY 78	
1978 055B		10926	USSR	2 JUN	21 JUN 78	
1978 055C		10927	USSR	2 JUN	17 JUN 78	
1978 055D		10929	USSR	2 JUN	25 JUN 78	
1978 057A	COSMOS 1021	10939	USSR	10 JUN	23 JUN 78	
1978 057B		10940	USSR	10 JUN	13 JUN 78	
1978 057C		10963	USSR	10 JUN	25 JUN 73	
1978 057D		10964	USSR	10 JUN	26 JUN 78	
1978 058C		10943	US	10 JUN	14 JUN 78	
1978 059A	COSMOS 1022	10944	USSR	12 JUN	25 JUN 78	
1978 059B		10945	USSR	12 JUN	16 JUN 78	
1978 059C		10965	USSR	12 JUN	28 JUN 78	
1978 059D		10966	USSR	12 JUN	28 JUN 78	
1978 060A		10947	US	14 JUN	23 AUG 81	
1978 060B		10948	US	14 JUN	24 JUL 78	
1978 060C		10951	US	14 JUN	18 JUN 78	
1978 060D		10957	US	14 JUN	18 JUN 78	
1978 060E		10958	US	14 JUN	18 JUN 78	
1978 060F		10959	US	14 JUN	18 JUN 78	
1978 061A	SOYUZ 29	10952	USSR	15 JUN	3 SEP 78	E*
1978 061B		10956	USSR	15 JUN	18 JUN 78	
1978 062C		10955	US	16 JUN	20 AUG 83	
1978 064B		14244	US	27 JUN	30 OCT 86	
1978 064C		18617	US	27 JUN	25 MAR 88	
1978 064D		18649	US	27 JUN	1 MAR 88	
1978 064E		18996	US	27 JUN	10 AUG 88	
1978 064F		19103	US	27 JUN	11 JUN 88	
1978 065A	SOYUZ 30	10968	USSR	27 JUN	5 JUL 78	E*
1978 065B		10969	USSR	27 JUN	30 JUN 78	
1978 066B		10971	USSR	28 JUN	31 JUL 78	
1978 066C		10972	USSR	28 JUN	12 JUL 78	
1978 069A	COSMOS 1026	10977	USSR	2 JUL	6 JUL 78	
1978 069B		10978	USSR	2 JUL	7 JUL 78	
1978 070A	PROGRESS 2	10979	USSR	7 JUL	4 AUG 78	
1978 070B		10980	USSR	7 JUL	10 JUL 78	
1978 071B		10982	US	14 JUL	11 DEC 78	
1978 072B		10985	USSR	14 JUL	30 AUG 78	
1978 072C		10986	USSR	14 JUL	23 AUG 78	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1973 0730		10938	USSR	18 JUL	20 JUL 78	
1973 0730		10939	USSR	18 JUL	19 JUL 78	
1973 075A	COSMOS 1028	10995	USSR	5 AUG	4 SEP 78	
1973 0753		10996	USSR	5 AUG	7 AUG 78	
1973 075C		10997	USSR	5 AUG	8 AUG 78	
1978 075D		11014	USSR	5 AUG	4 SEP 78	
1978 077A	PROGRESS 3	10999	USSR	7 AUG	23 AUG 78	
1978 077B		11000	USSR	7 AUG	9 AUG 78	
1978 078A	PIONEER VENUS	11001	US	8 AUG	9 DEC 78	
1973 078A	MULTIPROBE BUS	62033				
1973 078E		11002	US	8 AUG	8 AUG 78	
1973 075D	PIONEER PROBE	12103	US	8 AUG	9 DEC 79	
1973 078E	PIONEER PROBE	12104	US	8 AUG	9 DEC 79	
1973 078F	PIONEER PROBE	12105	US	8 AUG	9 DEC 79	
1978 078G	PIONEER PROBE	12105	US	8 AUG	9 DEC 79	
1978 079b		11005	US	12 AUG	23 OCT 78	
1978 080b		11009	USSR	22 AUG	15 SEP 78	
1978 080C		11009	USSR	22 AUG	6 SEP 78	
1978 081A	SOYUZ 31	11010	USSR	26 AUG	2 NOV 78	
1978 081b		11011	USSR	26 AUG	28 AUG 78	
1974 082A	COSMOS 1029	11012	USSR	29 AUG	8 SEP 78	
1978 082B		11013	USSR	29 AUG	3 SEP 78	
1978 082C		11018	USSR	29 AUG	11 SEP 78	
1973 082D		11019	USSR	29 AUG	10 SEP 78	
1978 083B		11016	USSR	6 SEP	6 OCT 78	
1973 083C		11017	USSR	6 SEP	21 SEP 78	
1978 084B		11077	USSR	9 SEP	10 SEP 78	
1978 084C		11021	USSR	9 SEP	10 SEP 78	
1978 084D	VENERA 11	12027	USSR	9 SEP	25 DEC 78	
1978 085A	COSMOS 1031	11022	USSR	9 SEP	22 SEP 78	
1978 085B		11023	USSR	9 SEP	14 SEP 78	
1978 085C		11024	USSR	9 SEP	17 APR 79	
1978 085D		11031	USSR	9 SEP	24 SEP 78	
1978 085E		11026	USSR	14 SEP	15 SEP 78	
1973 085C	VENERA 12	12028	USSR	14 SEP	21 DEC 78	
1973 083A	COSMOS 1032	11029	USSR	19 SEP	2 OCT 78	
1978 085B		11030	USSR	19 SEP	22 SEP 78	
1978 083C		11037	USSR	19 SEP	2 OCT 78	
1978 082D		11038	USSR	19 SEP	3 OCT 78	
1973 089A	COSMOS 1033	11029	USSR	3 OCT	16 OCT 78	
1978 089B		11041	USSR	3 OCT	6 OCT 78	
1973 089C		11063	USSR	3 OCT	17 OCT 78	
1978 090A	PROGRESS 4	11040	USSR	3 OCT	26 OCT 78	
1978 092B		11043	USSR	3 OCT	5 OCT 78	
1973 092A	COSMOS 1042	11052	USSR	6 OCT	19 OCT 78	
1973 092C		11053	USSR	6 OCT	10 OCT 78	
1978 092D		11070	USSR	6 OCT	21 OCT 78	
1978 093A		11071	USSR	6 OCT	21 OCT 78	
1973 093B		11078	US	7 OCT	25 DEC 91	
1973 093B		11059	USSR	13 OCT	28 OCT 78	

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DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 095C		11059	USSR	13 OCT	20 OCT 78	
1978 095D		11064	USSR	13 OCT	31 OCT 79	
1978 096D		18532	US	13 OCT	20 OCT 83	
1978 096E		18786	US	13 OCT	25 FEB 89	
1978 097A	COSMOS 1044	11065	USSR	17 OCT	30 OCT 78	
1978 097B		11066	USSR	17 OCT	22 OCT 78	
1978 097C		11067	USSR	17 OCT	21 OCT 79	
1978 097D		11068	USSR	17 OCT	21 OCT 78	
1978 097E		11069	USSR	17 OCT	21 OCT 78	
1978 098C		18605	US	24 OCT	20 OCT 89	
1978 099A	INTERCOSMOS 18	11082	USSR	24 OCT	17 MAR 81	
1978 099B		11083	USSR	24 OCT	13 MAY 81	
1978 099C	MAGION	11110	CZECH	24 OCT	11 SEP 81	
1978 101A	PROGNOS 7	11089	USSR	30 OCT	22 OCT 80	
1978 101B		11090	USSR	30 OCT	25 NOV 78	
1978 101C		11089	USSR	30 OCT	17 NOV 78	
1978 102A	COSMOS 1046	11098	USSR	1 NOV	13 NOV 79	
1978 102B		11099	USSR	1 NOV	7 NOV 78	
1978 102C		11103	USSR	1 NOV	14 NOV 78	
1978 102D		11104	USSR	1 NOV	15 NOV 78	
1978 102E		11105	USSR	1 NOV	14 NOV 78	
1978 102F		11106	USSR	1 NOV	14 NOV 78	
1978 102G		11107	USSR	1 NOV	14 NOV 78	
1978 103A	HEAO 2	11101	US	13 NOV	25 MAR 82	
1978 103B		11102	US	13 NOV	13 MAR 79	
1978 104A	COSMOS 1047	11108	USSR	15 NOV	28 NOV 78	
1978 104B		11109	USSR	15 NOV	19 NOV 78	
1978 104C		11120	USSR	15 NOV	2 DEC 78	
1978 106B		11116	US	19 NOV	12 DEC 78	
1978 106C		11117	US	19 NOV	28 NOV 82	
1978 107A	COSMOS 1049	11118	USSR	21 NOV	4 DEC 78	
1978 107B		11119	USSR	21 NOV	26 NOV 78	
1978 107C		11125	USSR	21 NOV	10 DEC 79	
1978 107D		11126	USSR	21 NOV	8 DEC 78	
1978 107E		11127	USSR	21 NOV	11 DEC 78	
1978 108A	COSMOS 1050	11121	USSR	26 NOV	12 DEC 78	
1978 108B		11122	USSR	28 NOV	8 DEC 78	
1978 108C		11123	USSR	28 NOV	2 JAN 79	
1978 108D		11124	USSR	28 NOV	2 JAN 79	
1978 108E		11143	USSR	28 NOV	15 DEC 78	
1978 110A	COSMOS 1059	11137	USSR	7 DEC	20 DEC 78	
1978 110B		11138	USSR	7 DEC	11 DEC 78	
1978 110C		11157	USSR	7 DEC	23 DEC 79	
1978 110D		11160	USSR	7 DEC	23 DEC 78	
1978 111A	COSMOS 1060	11139	USSR	8 DEC	21 DEC 78	
1978 111B		11140	USSR	8 DEC	13 DEC 79	
1978 113C		11146	US	14 DEC	14 DEC 78	
1978 114A	COSMOS 1061	11148	USSR	14 DEC	27 DEC 78	
1978 114B		11149	USSR	14 DEC	20 DEC 79	
1978 114C		11167	USSR	14 DEC	4 JAN 79	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1978 LAUNCHES (CONT.)						
1978 115A	COSMOS 1062	11150	USSR	15 DEC	20 APR 81	
1978 115B		11151	USSR	15 DEC	20 JUN 81	
1978 115C		11152	USSR	15 DEC	7 MAR 79	
1978 116B		11154	US	15 DEC	23 APR 79	
1978 116B		11159	USSR	19 DEC	21 DEC 78	
1978 119A	COSMOS 1064	11161	USSR	20 DEC	12 NOV 89	
1978 119B		11162	USSR	20 DEC	15 NOV 88	
1978 120A	COSMOS 1065	11163	USSR	22 DEC	1 AUG 79	
1978 120B		11164	USSR	22 DEC	18 AUG 79	
1978 120C		11243	USSR	22 DEC	1 MAR 79	
1978 120D		11244	USSR	22 DEC	2 MAR 79	
1978 120E		11248	USSR	22 DEC	3 MAR 79	
1978 120F		11249	USSR	22 DEC	1 MAR 79	
1978 120G		11424	USSR	22 DEC	16 JUL 79	
1978 120H		11426	USSR	22 DEC	5 AUG 79	
1978 123A	COSMOS 1068	11169	USSR	26 DEC	8 JAN 79	
1978 123B		11171	USSR	26 DEC	31 DEC 78	
1978 123C		11172	USSR	26 DEC	1 JAN 79	
1978 123D		11226	USSR	26 DEC	9 JAN 79	
1978 123E		11227	USSR	26 DEC	9 JAN 79	
1978 124A	COSMOS 1069	11173	USSR	28 DEC	10 JAN 79	
1978 124B		11174	USSR	28 DEC	5 JAN 79	
1978 124C		11175	USSR	28 DEC	31 DEC 78	
1978 124D		11176	USSR	28 DEC	16 JAN 79	
1978 124E		11228	USSR	28 DEC	11 JAN 79	
1978 124F		11237	USSR	28 DEC	22 JAN 79	
1979 LAUNCHES						
1979 001A	COSMOS 1070	11229	USSR	11 JAN	20 JAN 79	
1979 001B		11230	USSR	11 JAN	16 JAN 79	
1979 001C		11231	USSR	11 JAN	16 JAN 79	
1979 001D		11232	USSR	11 JAN	19 JAN 79	
1979 001E		11234	USSR	11 JAN	22 JAN 79	
1979 001F		11245	USSR	11 JAN	27 JAN 79	
1979 001G		11246	USSR	11 JAN	21 JAN 79	
1979 001H		11247	USSR	11 JAN	20 JAN 79	
1979 002A	COSMOS 1071	11233	USSR	13 JAN	26 JAN 79	
1979 002B		11235	USSR	13 JAN	17 JAN 79	
1979 002C		11236	USSR	13 JAN	18 JAN 79	
1979 002D		11250	USSR	13 JAN	27 JAN 79	
1979 002E		11253	USSR	13 JAN	27 JAN 79	
1979 002F		11254	USSR	13 JAN	29 JAN 79	
1979 004B		11241	USSR	13 JAN	31 JAN 79	
1979 004C		11242	USSR	13 JAN	29 JAN 79	
1979 005C		18529	USSR	25 JAN	25 AUG 83	
1979 006A	COSMOS 1073	11255	USSR	30 JAN	12 FEB 79	
1979 006B		11257	USSR	30 JAN	3 FEB 79	
1979 006C		11264	USSR	30 JAN	14 FEB 79	
1979 006D		11265	USSR	30 JAN	13 FEB 79	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 0076		11258	US	30 JAN	25 FEB 79	
1979 009A	COSMOS 1074	11259	USSR	31 MAR	1 APR 79	
1979 009B		11260	USSR	31 JAN	2 FEB 79	
1979 008C		11315	USSR	31 JAN	10 AUG 79	
1979 008D		11316	USSR	31 JAN	6 JUN 79	
1979 008E		11317	USSR	31 JAN	6 AUG 79	
1979 009F		11318	USSR	31 JAN	30 MAY 79	
1979 009G		11319	USSR	31 JAN	22 JUN 79	
1979 010A	COSMOS 1075	11262	USSR	5 FEB	19 OCT 81	
1979 0106		11263	USSR	8 FEB	29 AUG 80	
1979 013A	SAGE	11270	US	18 FEB	11 APR 89	
1979 013B		11271	US	18 FEB	19 SEP 81	
1979 013C		12405	US	18 FEB	14 AUG 82	
1979 014A	CORSA B	11272	JAPAN	21 FEB	15 APR 85	
1979 014B		11280	JAPAN	21 FEB	8 FEB 82	
1979 0158		11274	USSR	21 FEB	22 FEB 79	
1979 015C		11275	USSR	21 FEB	22 FEB 79	
1979 016A	COSMOS 1078	11276	USSR	22 FEB	2 MAR 79	
1979 016B		11277	USSR	22 FEB	24 FEB 79	
1979 015C		11287	USSR	22 FEB	2 MAR 79	
1979 0178		11279	US	24 FEB	11 OCT 83	
1979 017C		11291	US	24 FEB	29 JUL 79	
1979 017D		11322	US	24 FEB	27 FEB 82	
1979 017L		16033	US	24 FEB	4 APR 88	
1979 017J		16041	US	24 FEB	20 AUG 89	
1979 017Z		16071	US	24 FEB	22 JUL 87	
1979 017AR		16130	US	24 FEB	10 OCT 85	
1979 017AT		16132	US	24 FEB	24 OCT 85	
1979 017EN		16464	US	24 FEB	22 JAN 86	
1979 017FK		16483	US	24 FEB	1 FEB 89	
1979 017GP		16556	US	24 FEB	12 FEB 86	
1979 017HV		16586	US	24 FEB	10 FEB 86	
1979 017KT		17831	US	24 FEB	5 OCT 88	
1979 013A	SOYUZ 32	11261	USSR	25 FEB	13 JUN 79	
1979 0186		11282	USSR	25 FEB	27 FEB 79	
1979 019A	COSMOS 1079	11283	USSR	27 FEB	11 MAR 79	
1979 0198		11284	USSR	27 FEB	2 MAR 79	
1979 020C		11323	USSR	27 FEB	2 SEP 80	
1979 022A	PROGRESS 5	11292	USSR	12 MAR	5 APR 79	
1979 0228		11293	USSR	12 MAR	14 MAR 79	
1979 023A	COSMOS 1080	11294	USSR	14 MAR	28 MAR 79	
1979 0238		11295	USSR	14 MAR	16 MAR 79	
1979 023C		11310	USSR	14 MAR	27 MAR 79	
1979 023U		11311	USSR	14 MAR	27 MAR 79	
1979 023E		11312	USSR	14 MAR	28 MAR 79	
1979 025A		11305	US	16 MAR	22 SEP 79	
1979 025C		11307	US	16 MAR	18 MAR 79	
1979 027A	COSMOS 1090	11313	USSR	31 MAR	13 APR 79	
1979 027B		11314	USSR	31 MAR	5 APR 79	
1979 029A	SOYUZ 33	11324	USSR	10 APR	12 APR 79	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 0208		11325	USSR	10 APR	13 APR 79	
1979 0318		11329	USSR	12 APR	8 MAY 79	
1979 031C		11330	USSR	12 APR	5 MAY 79	
1979 031A	COSMOS 1094	11333	USSR	15 APR	7 NOV 79	
1979 0338		11334	USSR	18 APR	18 APR 79	
1979 033C		11367	USSR	16 APR	17 JUN 79	
1979 034A	COSMOS 1095	11335	USSR	20 APR	4 MAY 79	
1979 034B		11336	USSR	20 APR	27 APR 79	
1979 034C		11337	USSR	20 APR	1 MAY 79	
1979 034E		11351	USSR	20 APR	18 NOV 79	
1979 034F		11352	USSR	20 APR	21 JUN 79	
1979 034G		11354	USSR	20 APR	10 JUL 79	
1979 034H		11355	USSR	20 APR	1 JUN 79	
1979 035B		11344	USSR	25 APR	26 APR 79	
1979 035C		11345	USSR	25 APR	25 APR 79	
1979 035D	COSMOS 1096	11552	USSR	25 APR	1 JAN 80	
1979 036A		11346	USSR	25 APR	24 NOV 79	
1979 036B		11347	USSR	25 APR	25 APR 79	
1979 037A	COSMOS 1097	11348	USSR	27 APR	27 MAY 79	
1979 037B		11349	USSR	27 APR	30 APR 79	
1979 039A	PROGRESS 6	11356	USSR	13 MAY	9 JUN 79	
1979 039B		11357	USSR	13 MAY	15 MAY 79	
1979 040A	COSMOS 1098	11358	USSR	15 MAY	28 MAY 79	
1979 040B		11359	USSR	15 MAY	19 MAY 79	
1979 040C	COSMOS 1099	11370	USSR	15 MAY	30 MAY 79	
1979 041A		11360	USSR	17 MAY	30 MAY 79	
1979 041B		11361	USSR	17 MAY	21 MAY 79	
1979 041C		11371	USSR	17 MAY	22 JUN 79	
1979 041D		11373	USSR	17 MAY	21 JUN 79	
1979 041E		11374	USSR	17 MAY	2 JUN 79	
1979 042A	COSMOS 1100	11362	USSR	22 MAY	23 MAY 79	
1979 042B	COSMOS 1101	11363	USSR	22 MAY	23 MAY 79	
1979 042C		11364	USSR	22 MAY	26 MAY 79	
1979 042D		11365	USSR	22 MAY	16 JUN 79	
1979 042E		11366	USSR	22 MAY	25 MAY 79	
1979 043A	COSMOS 1102	11363	USSR	25 MAY	7 JUN 79	
1979 043B		11369	USSR	25 MAY	29 MAY 79	
1979 043C		11375	USSR	25 MAY	6 JUN 79	
1979 043D		11390	USSR	25 MAY	13 JUN 79	
1979 043E		11391	USSR	25 MAY	3 JUN 79	
1979 044A		11372	US	28 MAY	26 AUG 79	
1979 045A	COSMOS 1103	11376	USSR	31 MAY	14 JUN 79	
1979 045B		11377	USSR	31 MAY	24 JUN 79	
1979 045C		11380	USSR	31 MAY	5 JUN 79	
1979 045D		11381	USSR	31 MAY	8 JUN 79	
1979 045E		11402	USSR	31 MAY	27 JUL 79	
1979 045F		11406	USSR	31 MAY	9 JUL 79	
1979 045G		11407	USSR	31 MAY	15 NOV 79	
1979 047A	UK 6	11362	UK	2 JUN	23 SEP 90	
1979 047B		11363	US	2 JUN	10 APR 84	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 0488		11385	USSR	5 JUN	24 JUN 79	
1979 048C		11386	USSR	5 JUN	21 JUN 79	
1979 048D		11554	USSR	5 JUN	5 AUG 90	
1979 049A	SOYUZ 34	11387	USSR	6 JUN	19 AUG 79	
1979 049B		11388	USSR	6 JUN	9 JUN 79	
1979 050E		11411	US	5 JUN	8 JUN 82	
1979 050F		11412	US	6 JUN	23 FEB 82	
1979 051A	BHASKARA	11392	INDIA	7 JUN	17 FEB 89	
1979 051B		11393	USSR	7 JUN	17 FEB 82	
1979 052A	COSMOS 1105	11394	USSR	8 JUN	21 JUN 79	
1979 052B		11395	USSR	8 JUN	12 JUN 79	
1979 052C		11396	USSR	8 JUN	8 JUN 79	
1979 052D		11409	USSR	8 JUN	28 JUL 79	
1979 053B		11398	US	10 JUN	11 JUN 79	
1979 054A	COSMOS 1106	11399	USSR	12 JUN	25 JUN 79	
1979 054B		11400	USSR	12 JUN	15 JUN 79	
1979 054C		11401	USSR	12 JUN	7 AUG 79	
1979 054D		11415	USSR	12 JUN	30 JUN 79	
1979 055A	COSMOS 1107	11404	USSR	15 JUN	29 JUN 79	
1979 055B		11405	USSR	15 JUN	20 JUN 79	
1979 055C		11420	USSR	15 JUN	2 JUL 79	
1979 055D		11429	USSR	15 JUN	3 JUL 79	
1979 056A	COSMOS 1108	11413	USSR	22 JUN	5 JUL 79	
1979 0553		11414	USSR	22 JUN	25 JUN 79	
1979 056C		11437	USSR	22 JUN	8 JUL 79	
1979 056D		11438	USSR	22 JUN	11 JUL 79	
1979 056E		11439	USSR	22 JUN	21 JUL 79	
1979 058B		11418	USSR	27 JUN	26 JUL 79	
1979 058C		11423	USSR	27 JUN	13 JUL 79	
1979 059A	PROGRESS 7	11421	USSR	28 JUN	20 JUL 79	
1979 059B		11422	USSR	28 JUN	30 JUN 79	
1979 061A	COSMOS 1111	11429	USSR	29 JUN	14 JUL 79	
1979 061B		11430	USSR	29 JUN	20 JUL 79	
1979 061C		11453	USSR	29 JUN	5 DEC 79	
1979 061D		11454	USSR	29 JUN	25 AUG 79	
1979 061E		11455	USSR	29 JUN	30 JUL 79	
1979 061F		11456	USSR	29 JUN	25 AUG 79	
1979 062B		11441	USSR	5 JUL	7 JUL 79	
1979 062C		11442	USSR	5 JUL	7 JUL 79	
1979 062E		14070	USSR	5 JUL	28 APR 84	
1979 063A	COSMOS 1112	11443	USSR	5 JUL	21 JAN 80	
1979 063B		11444	USSR	5 JUL	8 JAN 80	
1979 063C		11445	USSR	6 JUL	8 JUL 79	
1979 063D		11446	USSR	6 JUL	1 AUG 79	
1979 063E		11514	USSR	6 JUL	23 SEP 79	
1979 063F		11535	USSR	6 JUL	20 OCT 79	
1979 063G		11557	USSR	6 JUL	21 OCT 79	
1979 063H		11593	USSR	6 JUL	5 NOV 79	
1979 063J		11584	USSR	6 JUL	5 NOV 79	
1979 063K		11594	USSR	6 JUL	7 NOV 79	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 063L		11595	USSR	6 JUL	11 NOV 79	
1979 063M		11596	USSR	6 JUL	5 JAN 80	
1979 063N		11597	USSR	6 JUL	20 FEB 80	
1979 063P		11598	USSR	6 JUL	1 NOV 79	
1979 063Q		11599	USSR	6 JUL	7 DEC 79	
1979 063R		11603	USSR	6 JUL	12 NOV 79	
1979 063S		11617	USSR	6 JUL	5 DEC 79	
1979 063T		11614	USSR	6 JUL	22 NOV 79	
1979 063U		11619	USSR	6 JUL	5 DEC 79	
1979 063V		11620	USSR	6 JUL	30 NOV 79	
1979 063W		11625	USSR	6 JUL	4 DEC 79	
1979 063X		11626	USSR	6 JUL	4 DEC 79	
1979 063Y		11627	USSR	6 JUL	5 DEC 79	
1979 063Z		11628	USSR	6 JUL	7 DEC 79	
1979 063AA		11643	USSR	6 JUL	21 DEC 79	
1979 063AB		11644	USSR	6 JUL	21 DEC 79	
1979 064A	COSMOS 1113	11447	USSR	10 JUL	23 JUL 79	
1979 064B		11448	USSR	10 JUL	15 JUL 79	
1979 064C		11459	USSR	10 JUL	26 JUL 79	
1979 064D		11460	USSR	10 JUL	27 JUL 79	
1979 064E		11461	USSR	10 JUL	25 JUL 79	
1979 065A	COSMOS 1114	11449	USSR	11 JUL	26 DEC 81	
1979 065B		11450	USSR	11 JUL	5 FEB 82	
1979 066A	COSMOS 1115	11451	USSR	13 JUL	26 JUL 79	
1979 066B		11452	USSR	13 JUL	17 JUL 79	
1979 066C		11462	USSR	13 JUL	20 AUG 79	
1979 068A	COSMOS 1117	11463	USSR	25 JUL	7 AUG 79	
1979 068B		11464	USSR	25 JUL	29 JUL 79	
1979 068C		11481	USSR	25 JUL	11 AUG 79	
1979 068D		11492	USSR	25 JUL	10 AUG 79	
1979 068E		11483	USSR	25 JUL	11 AUG 79	
1979 069A	COSMOS 1118	11465	USSR	27 JUL	9 AUG 79	
1979 069B		11466	USSR	27 JUL	31 JUL 79	
1979 069C		11477	USSR	27 JUL	7 AUG 79	
1979 070B		11475	USSR	31 JUL	20 AUG 79	
1979 070C		11476	USSR	31 JUL	14 AUG 79	
1979 071A	COSMOS 1119	11478	USSR	3 AUG	18 AUG 79	
1979 071B		11479	USSR	3 AUG	7 AUG 79	
1979 072B		11490	US	10 AUG	10 AUG 79	
1979 073A	COSMOS 1120	11485	USSR	11 AUG	24 AUG 79	
1979 073B		11486	USSR	11 AUG	15 AUG 79	
1979 073C		11505	USSR	11 AUG	28 AUG 79	
1979 073D		11506	USSR	11 AUG	31 AUG 79	
1979 074A	COSMOS 1121	11487	USSR	14 AUG	13 SEP 79	
1979 074B		11488	USSR	14 AUG	18 AUG 79	
1979 075A	COSMOS 1122	11491	USSR	17 AUG	30 AUG 79	
1979 075B		11492	USSR	17 AUG	20 AUG 79	
1979 075C		11493	USSR	17 AUG	27 AUG 79	
1979 075D		11499	USSR	17 AUG	25 AUG 79	
1979 075E		11507	USSR	17 AUG	27 AUG 79	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 076A	COSMOS 1123	11496	USSR	21 AUG	3 SEP 79	
1979 076B		11497	USSR	21 AUG	24 AUG 79	
1979 076C		11517	USSR	21 AUG	6 SEP 79	
1979 076D		11518	USSR	21 AUG	6 SEP 79	
1979 076E		11519	USSR	21 AUG	7 SEP 79	
1979 077B		11512	USSR	28 AUG	28 SEP 79	
1979 077C		11513	USSR	28 AUG	11 SEP 79	
1979 079A	COSMOS 1126	11515	USSR	31 AUG	14 SEP 79	
1979 079B		11516	USSR	31 AUG	9 SEP 79	
1979 079C		11524	USSR	31 AUG	26 OCT 79	
1979 079D		11525	USSR	31 AUG	16 FEB 80	
1979 079E		11526	USSR	31 AUG	14 FEB 80	
1979 079F		11527	USSR	31 AUG	16 SEP 79	
1979 079G		11528	USSR	31 AUG	17 OCT 79	
1979 080A	COSMOS 1127	11520	USSR	5 SEP	18 SEP 79	
1979 080B		11521	USSR	5 SEP	10 SEP 79	
1979 080C		11522	USSR	5 SEP	6 SEP 79	
1979 080D		11531	USSR	5 SEP	30 SEP 79	
1979 081A	COSMOS 1128	11529	USSR	14 SEP	27 SEP 79	
1979 081B		11530	USSR	14 SEP	17 SEP 79	
1979 091C		11547	USSR	14 SEP	27 SEP 79	
1979 082A	HEAO 3	11532	US	20 SEP	7 DEC 81	
1979 082B		11533	US	20 SEP	13 NOV 79	
1979 083A	COSMOS 1129	11536	USSR	25 SEP	14 OCT 79	
1979 083B		11537	USSR	25 SEP	6 OCT 79	
1979 093C		11579	USSR	25 SEP	31 OCT 79	
1979 083D		11580	USSR	25 SEP	18 OCT 79	
1979 084E		11582	USSR	25 SEP	16 MAR 80	
1979 085A	COSMOS 1138	11548	USSR	28 SEP	11 OCT 79	
1979 085B		11549	USSR	28 SEP	5 OCT 79	
1979 085C		11575	USSR	28 SEP	2 NOV 79	
1979 085D		11576	USSR	28 SEP	13 OCT 79	
1979 085E		11577	USSR	28 SEP	12 NOV 79	
1979 085F		11578	USSR	28 SEP	26 FEB 80	
1979 086B		11559	US	1 OCT	7 OCT 79	
1979 087B		11562	USSR	3 OCT	5 OCT 79	
1979 089A	COSMOS 1139	11564	USSR	5 OCT	18 OCT 79	
1979 088B		11565	USSR	5 OCT	11 OCT 79	
1979 089C		11566	USSR	5 OCT	7 OCT 79	
1979 090D		11588	USSR	16 OCT	7 SEP 82	
1979 091B		11590	USSR	20 OCT	11 NOV 79	
1979 091C		11591	USSR	20 OCT	10 NOV 79	
1979 092A	COSMOS 1142	11592	USSR	22 OCT	4 NOV 79	
1979 092B		11593	USSR	22 OCT	28 OCT 79	
1979 092C		11613	USSR	22 OCT	25 MAR 80	
1979 092D		11614	USSR	22 OCT	1 DEC 79	
1979 092E		11615	USSR	22 OCT	21 NOV 79	
1979 092F		11615	USSR	22 OCT	9 MAR 80	
1979 094A	MAGSAT	11504	US	30 OCT	11 JUN 80	
1979 094B		11506	US	30 OCT	27 JAN 80	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1979 LAUNCHES (CONT.)						
1979 004C		11607	US	30 OCT	22 FEB 80	
1979 005A	INTERCOSMOS 20	11609	USSR	1 NOV	5 MAR 81	
1979 006B		11610	USSR	1 NOV	26 MAR 81	
1979 007A	COSMOS 1144	11611	USSR	2 NOV	4 DEC 79	
1979 007B		11612	USSR	2 NOV	5 NOV 79	
1979 008D		11624	US	21 NOV	21 NOV 79	
1979 100A	COSMOS 1146	11632	USSR	5 DEC	25 NOV 81	
1979 100B		11633	USSR	5 DEC	31 JAN 81	
1979 101B		11636	US	7 DEC	9 APR 80	
1979 101C		11637	US	7 DEC	27 MAR 80	
1979 102A	COSMOS 1147	11638	USSR	12 DEC	26 DEC 79	
1979 102B		11639	USSR	12 DEC	19 DEC 79	
1979 102C		11645	USSR	12 DEC	15 JAN 80	
1979 102D		11647	USSR	12 DEC	9 MAR 80	
1979 103A	SOYUZ T-1	11649	USSR	16 DEC	25 MAR 80	
1979 103B		11641	USSR	16 DEC	18 DEC 79	
1979 103C		11642	USSR	16 DEC	18 DEC 79	
1979 104A	ARIANE V1	11645	ESA	24 DEC	27 NOV 89	
1979 104B		11659	ESA	24 DEC	14 NOV 82	
1979 1053		11651	USSR	28 DEC	30 DEC 79	
1979 105C		11660	USSR	28 DEC	15 APR 82	
1979 105D		11661	USSR	28 DEC	3 DEC 84	
1979 106A	COSMOS 1148	11649	USSR	28 DEC	10 JAN 80	
1979 106B		11650	USSR	28 DEC	31 DEC 79	
1979 106C		11654	USSR	28 DEC	10 JAN 80	
1979 106D		11655	USSR	28 DEC	15 JAN 80	
1979 106E		11657	USSR	28 DEC	15 JAN 80	
1979 106F		11658	USSR	28 DEC	11 JAN 80	
1980 LAUNCHES						
1980 001A	COSMOS 1149	11652	USSR	9 JAN	23 JAN 80	
1980 001B		11653	USSR	9 JAN	17 JAN 80	
1980 001C		11656	USSR	9 JAN	19 JAN 80	
1980 001D		11673	USSR	9 JAN	16 MAY 80	
1980 001E		11674	USSR	9 JAN	18 FEB 80	
1980 001F		11675	USSR	9 JAN	11 JUN 80	
1980 001G		11677	USSR	9 JAN	27 JAN 80	
1980 002B		11663	USSR	11 JAN	28 JAN 80	
1980 002C		11664	USSR	11 JAN	24 JAN 80	
1980 002D		11665	USSR	11 JAN	11 JAN 80	
1980 002E		11666	USSR	11 JAN	21 JAN 80	
1980 0043		11719	US	18 JAN	5 JAN 90	
1980 005A	COSMOS 1152	11678	USSR	24 JAN	6 FEB 80	
1980 005B		11679	USSR	24 JAN	28 JAN 80	
1980 009A	COSMOS 1155	11685	USSR	7 FEB	21 FEB 80	
1980 009B		11686	USSR	7 FEB	16 FEB 80	
1980 009C		11711	USSR	7 FEB	13 MAR 80	
1980 009D		11712	USSR	7 FEB	2 MAR 80	
1980 009E		11717	USSR	7 FEB	10 APR 80	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 010A		11687	US	7 FEB	30 OCT 82	
1980 010B		11688	US	7 FEB	13 MAR 80	
1980 010C		11689	US	7 FEB	8 FEB 80	
1980 012K		11725	USSR	11 FEB	5 MAR 80	
1980 013A	COSMOS 1164	11700	USSR	12 FEB	12 JAN 81	
1980 013B		11701	USSR	12 FEB	10 MAR 80	
1980 013C		11702	USSR	12 FEB	3 APR 80	
1980 013D		11949	USSR	12 FEB	8 NOV 80	
1980 014A	SMM	11703	JS	14 FEB	2 DEC 89	
1980 014B		11704	US	14 FEB	16 MAY 89	
1980 014C		20325	US	14 FEB	23 NOV 89	
1980 015A	TANSEI 4	11706	JAPAN	17 FEB	12 MAY 83	
1980 015B		11707	JAPAN	17 FEB	20 JAN 84	
1980 015C		11910	JAPAN	17 FEB	27 AUG 80	
1980 015D		11948	JAPAN	17 FEB	8 OCT 80	
1980 016A		11709	USSR	20 FEB	22 FEB 80	
1980 016B		11710	USSR	20 FEB	22 FEB 80	
1980 016C		11901	USSR	20 FEB	12 JAN 81	
1980 016E		11802	USSR	20 FEB	15 APR 82	
1980 016F		11713	USSR	21 FEB	5 MAR 80	
1980 017A	COSMOS 1165	11714	USSR	21 FEB	25 FEB 80	
1980 017B		11726	USSR	21 FEB	7 MAR 80	
1980 017C		11727	USSR	21 FEB	6 MAR 80	
1980 017D		11716	USSR	21 FEB	28 FEB 80	
1980 018B		11716	JAPAN	22 FEB	8 JUN 82	
1980 018D		13262	JAPAN	4 MAR	18 MAR 80	
1980 020A	COSMOS 1166	11722	USSR	4 MAR	13 MAR 80	
1980 020B		11723	USSR	4 MAR	10 MAR 80	
1980 020C		11724	USSR	4 MAR	4 SEP 80	
1980 020D		11737	USSR	4 MAR	28 APR 80	
1980 020E		11738	USSR	4 MAR	9 APR 80	
1980 020F		11739	USSR	4 MAR	1 OCT 81	
1980 021A	COSMOS 1167	11729	USSR	14 MAR	14 MAR 80	
1980 021B		11730	USSR	14 MAR	6 AUG 81	
1980 021C		12605	USSR	14 MAR	1 DEC 82	
1980 021D		12606	USSR	14 MAR	22 AUG 81	
1980 021E		12607	USSR	14 MAR	12 AUG 81	
1980 021F		12608	USSR	14 MAR	15 OCT 81	
1980 021G		12609	USSR	14 MAR	14 DEC 81	
1980 021H		12610	USSR	14 MAR	22 AUG 81	
1980 021J		12611	USSR	14 MAR	16 AUG 81	
1980 021K		12612	USSR	14 MAR	2 AUG 81	
1980 021L		12613	USSR	14 MAR	27 AUG 81	
1980 021M		12615	USSR	14 MAR	27 AUG 81	
1980 021N		12616	USSR	14 MAR	3 MAR 83	
1980 023A	COSMOS 1169	11741	USSR	27 MAR	4 NOV 81	
1980 023B		11742	USSR	27 MAR	26 APR 80	
1980 024A	PROGRESS 8	11743	USSR	27 MAR	29 MAR 80	
1980 024B		11744	USSR	27 MAR	12 APR 80	
1980 025A		11747	USSR	1 APR	5 APR 80	
1980 025B	COSMOS 1170	11743	USSR	1 APR		

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 025C		11749	USSR	1 APR	3 APR 80	
1980 025D		11755	USSR	1 APR	14 APR 80	
1980 025E		11756	USSR	1 APR	13 APR 80	
1980 025F		11757	USSR	1 APR	13 APR 80	
1980 027A	SOYUZ 35	11753	USSR	9 APR	3 JUN 80	
1980 027B		11754	USSR	9 APR	11 APR 80	
1980 028B		11759	USSR	12 APR	26 APR 80	
1980 028C		11760	USSR	12 APR	8 MAY 80	
1980 028D		11761	USSR	12 APR	20 APR 80	
1980 029A	COSMOS 1173	11763	USSR	17 APR	28 APR 80	
1980 029B		11764	USSR	17 APR	21 APR 80	
1980 029C		11785	USSR	17 APR	30 APR 80	
1980 029D		11787	USSR	17 APR	20 APR 80	
1980 030B		11766	USSR	18 APR	30 DEC 80	
1980 030C		11771	USSR	18 APR	19 APR 81	
1980 030D		11772	USSR	18 APR	17 JAN 81	
1980 030E		11773	USSR	18 APR	17 APR 81	
1980 030F		11774	USSR	18 APR	17 FEB 82	
1980 030H		11776	USSR	18 APR	17 FEB 91	
1980 030M		11780	USSR	18 APR	17 FEB 82	
1980 030Q		12098	USSR	18 APR	1 DEC 82	
1980 030S		12344	USSR	18 APR	8 SEP 82	
1980 030U		12346	USSR	18 APR	24 APR 82	
1980 030X		12349	USSR	18 APR	15 DEC 82	
1980 030Z		12355	USSR	18 APR	3 DEC 81	
1980 030AA		12356	USSR	18 APR	21 MAR 82	
1980 030AC		12358	USSR	18 APR	25 OCT 82	
1980 030AD		12359	USSR	18 APR	17 AUG 81	
1980 030AF		12361	USSR	18 APR	27 JUL 81	
1980 030AG		12362	USSR	18 APR	18 APR 82	
1980 030AR		13945	USSR	18 APR	30 SEP 83	
1980 031A	COSMOS 1175	11767	USSR	18 APR	28 MAY 80	
1980 031B		11768	USSR	18 APR	2 MAY 80	
1980 031C		11769	USSR	18 APR	29 SEP 80	
1980 031D		11770	USSR	18 APR	30 MAY 80	
1980 031E	PROGRESS 9	11784	USSR	27 APR	22 MAY 80	
1980 033A		11785	USSR	29 APR	29 APR 80	
1980 033B		11958	USSR	29 APR	4 OCT 80	
1980 034B		11969	USSR	29 APR	12 SEP 80	
1980 034C		11789	USSR	29 APR	12 JUN 80	
1980 035A	COSMOS 1177	11790	USSR	29 APR	2 MAY 80	
1980 035B		11840	USSR	29 APR	16 JUN 80	
1980 035C		11793	USSR	7 MAY	22 MAY 80	
1980 036A	COSMOS 1179	11794	USSR	7 MAY	14 MAY 80	
1980 036B		11795	USSR	7 MAY	12 MAY 80	
1980 036C		11805	USSR	7 MAY	7 JUL 80	
1980 036D		11806	USSR	7 MAY	16 NOV 80	
1980 036E		11807	USSR	7 MAY	22 JUN 80	
1980 036F		11807	USSR	7 MAY	18 JUL 89	
1980 037A	COSMOS 1179	11795	USSR	14 MAY	11 JAN 83	
1980 037B		11797	USSR	14 MAY		

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 038A	COSMOS 1180	11798	USSR	15 MAY	26 MAY 80	
1980 038B		11799	USSR	15 MAY	23 MAY 80	
1980 038C		11900	USSR	15 MAY	17 MAY 80	
1980 038J		11813	USSR	15 MAY	30 MAY 80	
1980 038E		11814	USSR	15 MAY	31 MAY 80	
1980 038F	COSMOS 1182	11915	USSR	15 MAY	31 MAY 80	
1980 040A		11808	USSR	23 MAY	5 JUN 80	
1980 040B		11809	USSR	23 MAY	26 MAY 80	
1980 040C		11823	USSR	10 JUN	10 JUN 80	
1980 040D		11824	USSR	23 MAY	9 JUN 80	
1980 041A	SOYUZ 36	11811	USSR	26 MAY	31 JUL 80	
1980 041B		11812	USSR	26 MAY	29 MAY 80	
1980 042A		11816	USSR	26 MAY	11 JUN 80	
1980 042U		11817	USSR	28 MAY	5 JUN 80	
1980 042C		11818	USSR	28 MAY	9 JUN 80	
1980 042D	COSMOS 1183	11833	USSR	28 MAY	13 JUL 80	
1980 042E		11834	USSR	26 MAY	3 AUG 80	
1980 042F		11835	USSR	28 MAY	14 JUN 80	
1980 042G		11836	USSR	28 MAY	4 DEC 80	
1980 043A		11819	US	29 MAY	3 MAY 81	
1980 043H	NOAA B	11820	US	29 MAY	11 SEP 80	
1980 043C		11874	US	29 MAY	27 AUG 80	
1980 045A		11825	USSR	5 JUN	9 JUN 80	
1980 045B		11826	USSR	5 JUN	7 JUN 80	
1980 046A	COSMOS 1185	11827	USSR	6 JUN	20 JUN 80	
1980 046B		11828	USSR	6 JUN	11 JUN 80	
1980 046C		11853	USSR	6 JUN	4 JUL 80	
1980 046D		11854	USSR	6 JUN	25 JUN 80	
1980 047A		11829	USSR	6 JUN	1 JAN 82	
1980 047B	COSMOS 1186	11330	USSR	6 JUN	16 DEC 81	
1980 047C		11931	USSR	6 JUN	17 JUN 80	
1980 047D		11912	USSR	5 JUN	24 SEP 80	
1980 047E		11913	USSR	6 JUN	14 SEP 80	
1980 047F		12407	USSR	6 JUN	3 MAY 81	
1980 047G		12408	USSR	6 JUN	3 MAY 81	
1980 047H		12412	USSR	6 JUN	1 MAY 81	
1980 047J		12413	USSR	6 JUN	3 MAY 81	
1980 047K		12414	USSR	6 JUN	3 MAY 81	
1980 047L		12415	USSR	6 JUN	3 MAY 81	
1980 047M		12422	USSR	6 JUN	3 MAY 81	
1980 047N		12427	USSR	6 JUN	3 MAY 81	
1980 047P		12453	USSR	6 JUN	3 MAY 81	
1980 047Q		12459	USSR	6 JUN	28 MAY 81	
1980 047R		12430	USSR	6 JUN	20 MAY 81	
1980 047S		12481	USSR	6 JUN	22 JUN 81	
1980 047T		12482	USSR	6 JUN	18 JUN 81	
1980 047U		12483	USSR	6 JUN	15 JUN 81	
1980 047V		12484	USSR	6 JUN	22 JUN 81	
1980 047W		12485	USSR	6 JUN	18 JUN 81	
1980 047X		12486	USSR	6 JUN	17 JUN 81	
					29 SEP 81	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 047Y		12487	USSR	6 JUN	14 JUN 81	
1980 047Z		12490	USSR	6 JUN	20 JUN 81	
1980 047AA		12509	USSR	6 JUN	14 JUN 81	
1980 047AB		12510	USSR	6 JUN	20 JUN 81	
1980 047AC		12511	USSR	6 JUN	13 JUL 81	
1980 048A		11837	USSR	12 JUN	26 JUN 80	
1980 048B	COSMOS 1187	11838	USSR	12 JUN	17 JUN 80	
1980 048C		11839	USSR	12 JUN	17 JUN 80	
1980 048D		11865	USSR	12 JUN	29 JUN 80	
1980 048E		11866	USSR	12 JUN	18 JUL 80	
1980 049B		11842	USSR	14 JUN	15 JUN 80	
1980 049C		11843	USSR	14 JUN	14 JUN 80	
1980 049D		11859	USSR	14 JUN	20 APR 82	
1980 049E		11860	USSR	14 JUN	22 MAR 82	
1980 050C		11845	USSR	14 JUN	17 JUL 80	
1980 050D		11846	USSR	14 JUN	6 JUL 80	
1980 052A		11850	US	18 JUN	6 MAR 81	
1980 052B		11851	US	18 JUN	20 JUN 80	
1980 053A		11856	USSR	21 JUN	1 APR 91	
1980 053B	MOLNIYA 1-47	11857	USSR	21 JUN	28 JUL 80	
1980 053C		11858	USSR	21 JUN	25 JUL 80	
1980 053D		11861	USSR	21 JUN	13 MAR 91	
1980 054A		11863	USSR	26 JUN	10 JUL 80	
1980 054J	COSMOS 1189	11864	USSR	26 JUN	1 JUL 80	
1980 054C		11886	USSR	26 JUN	13 JUL 80	
1980 054D		11887	USSR	26 JUN	4 AUG 80	
1980 054E		11889	USSR	26 JUN	18 JUL 80	
1980 055A		11867	USSR	29 JUN	19 JUL 80	
1980 055B	PROGRESS 10	11868	USSR	29 JUN	2 JUL 80	
1980 057B		11872	USSR	2 JUL	2 AUG 80	
1980 057C		11873	USSR	2 JUL	31 JUL 80	
1980 059A		11884	USSR	9 JUL	23 JUL 80	
1980 059B		11885	USSR	9 JUL	15 JUL 80	
1980 059C		11901	USSR	9 JUL	30 JUL 80	
1980 059D		11902	USSR	9 JUL	17 AUG 80	
1980 059E		11903	USSR	9 JUL	27 JUL 80	
1980 059F		11904	USSR	9 JUL	28 JUL 80	
1980 060A		11891	USSR	14 JUL	16 JUL 80	
1980 060C		11892	USSR	14 JUL	15 JUL 80	
1980 060D		11914	USSR	14 JUL	20 APR 82	
1980 060E		11923	USSR	14 JUL	2 APR 81	
1980 061A		11894	USSR	15 JUL	28 JUL 80	
1980 061B	COSMOS 1201	11895	USSR	15 JUL	18 JUL 80	
1980 061C		11910	USSR	15 JUL	31 JUL 80	
1980 061D		11911	USSR	15 JUL	2 AUG 80	
1980 062A		11899	INDIA	18 JUL	20 MAY 81	
1980 062B	ROHINI 1	11900	INDIA	18 JUL	23 JUL 81	
1980 063A		11897	USSR	18 JUL	2 AUG 80	
1980 063C		11899	USSR	18 JUL	4 AUG 80	
1980 064A	SUVET 37	11906	USSR	23 JUL	11 OCT 80	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 0648	COSMOS 1202	11906	USSR	23 JUL	27 JUL 80	RU*
1980 065A		11907	USSR	24 JUL	7 AUG 80	
1980 065B		11908	USSR	24 JUL	29 JUL 80	
1980 065C		11920	USSR	24 JUL	23 AUG 80	
1980 065D		11921	USSR	24 JUL	10 AUG 80	
1980 065E	COSMOS 1203	11922	USSR	24 JUL	11 AUG 80	
1980 066A		11915	USSR	31 JUL	14 AUG 80	
1980 066B		11916	USSR	31 JUL	6 AUG 80	
1980 066C		11919	USSR	31 JUL	2 AUG 80	
1980 066D		11927	USSR	31 JUL	30 AUG 80	
1980 066E	COSMOS 1204	11923	USSR	31 JUL	21 AUG 80	
1980 066F		11929	USSR	31 JUL	19 AUG 80	
1980 067A		11917	USSR	31 JUL	23 FEB 81	
1980 067B		11913	USSR	31 JUL	13 FEB 81	
1980 067C		11960	USSR	31 JUL	11 OCT 80	
1980 067D		11961	USSR	31 JUL	14 OCT 80	RU*
1980 067E		11987	USSR	31 JUL	31 OCT 80	
1980 067F		11988	USSR	31 JUL	24 OCT 80	
1980 067G		11939	USSR	31 JUL	24 OCT 80	
1980 067H		11992	USSR	31 JUL	26 OCT 80	
1980 067J		12010	USSR	31 JUL	3 NOV 80	
1980 067K		12011	USSR	31 JUL	3 NOV 80	
1980 067L		12014	USSR	31 JUL	4 NOV 80	
1980 067M		12015	USSR	31 JUL	10 NOV 80	
1980 067N		12036	USSR	31 JUL	27 NOV 80	
1980 067P		12037	USSR	31 JUL	16 NOV 80	
1980 067Q		12038	USSR	31 JUL	18 NOV 80	
1980 067R		12047	USSR	31 JUL	23 NOV 80	
1980 067S		12048	USSR	31 JUL	3 DEC 80	
1980 067T		12049	USSR	31 JUL	19 NOV 80	
1980 067U	COSMOS 1205	12052	USSR	31 JUL	17 NOV 80	RU*
1980 067V		12053	USSR	31 JUL	17 NOV 80	
1980 067W		12056	USSR	31 JUL	16 NOV 80	
1980 067X		12057	USSR	31 JUL	23 NOV 80	
1980 067Y		12074	USSR	31 JUL	14 DEC 80	
1980 067Z		12075	USSR	31 JUL	13 DEC 80	
1980 068A		11924	USSR	12 AUG	26 AUG 80	
1980 068B		11925	USSR	12 AUG	17 AUG 80	
1980 069C		11943	USSR	12 AUG	10 SEP 80	
1980 068D		11944	USSR	12 AUG	29 AUG 80	
1980 070A	COSMOS 1207	11938	USSR	22 AUG	4 SEP 80	RU*
1980 070B		11939	USSR	22 AUG	26 AUG 80	
1980 070C		11954	USSR	22 AUG	8 SEP 80	
1980 070D		11959	USSR	22 AUG	8 SEP 80	
1980 071A		11945	USSR	26 AUG	24 SEP 80	
1980 071B	COSMOS 1208	11946	USSR	26 AUG	30 AUG 80	
1980 072A		11950	USSR	3 SEP	17 SEP 80	
1980 072B		11951	USSR	3 SEP	7 SEP 80	
1980 072C		11976	USSR	3 SEP	30 SEP 80	
1980 074B		11955	US	7 SEP	1 DEC 80	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1980 LAUNCHES (CONT.)						
1980 075A	SOYUZ 38	11977	USSR	18 SEP	26 SEP 80	
1980 075B		11978	USSR	18 SEP	21 SEP 80	
1980 075C		11979	USSR	18 SEP	21 SEP 80	
1980 076A	COSMOS 1210	11980	USSR	19 SEP	3 OCT 80	
1980 076B		11981	USSR	19 SEP	21 SEP 80	
1980 076C		11995	USSR	19 SEP	11 OCT 80	
1980 076D		11996	USSR	19 SEP	6 OCT 80	
1980 076E		11999	USSR	19 SEP	29 OCT 80	
1980 076F		12001	USSR	19 SEP	10 OCT 80	
1980 076G	COSMOS 1211	12002	USSR	19 SEP	5 OCT 80	
1980 077A		11982	USSR	23 SEP	4 OCT 80	
1980 077B		11983	USSR	23 SEP	26 SEP 80	
1980 078A	COSMOS 1212	11985	USSR	26 SEP	9 OCT 80	
1980 078B		11986	USSR	26 SEP	29 SEP 80	
1980 078C		12006	USSR	26 SEP	10 OCT 80	
1980 078D	PROGRESS 11	12007	USSR	26 SEP	11 OCT 80	
1980 079A		11993	USSR	28 SEP	11 DEC 80	
1980 079B		11994	USSR	28 SEP	30 SEP 80	
1980 080A	COSMOS 1213	11997	USSR	3 OCT	17 OCT 80	
1980 080B		11998	USSR	3 OCT	7 OCT 80	
1980 080C		12022	USSR	3 OCT	6 NOV 80	
1980 080D		12023	USSR	3 OCT	24 OCT 80	
1980 080E		12024	USSR	3 OCT	24 OCT 80	
1980 080F		12025	USSR	3 OCT	22 OCT 80	
1980 081B		12004	USSR	5 OCT	7 OCT 80	
1980 081C		12005	USSR	5 OCT	6 OCT 80	
1980 081D		12012	USSR	5 OCT	15 APR 82	
1980 081E	COSMOS 1214	12013	USSR	5 OCT	14 JUN 82	
1980 082A		12008	USSR	10 OCT	23 OCT 80	
1980 082B		12009	USSR	10 OCT	13 OCT 80	
1980 082C		12029	USSR	10 OCT	25 OCT 80	
1980 082D		12030	USSR	10 OCT	25 OCT 80	
1980 082E		12031	USSR	10 OCT	25 OCT 80	
1980 083A	COSMOS 1215	12016	USSR	14 OCT	12 MAY 83	
1980 083B		12017	USSR	14 OCT	27 AUG 82	
1980 083C		12018	USSR	14 OCT	10 JAN 81	
1980 083D		12026	USSR	14 OCT	18 NOV 80	
1980 084A		12019	USSR	16 OCT	30 OCT 80	
1980 084B		12020	USSR	16 OCT	23 OCT 80	
1980 084C	COSMOS 1216	12021	USSR	16 OCT	22 OCT 80	
1980 084D		12040	USSR	16 OCT	5 DEC 80	
1980 084E		12041	USSR	16 OCT	26 MAR 81	
1980 084F		12043	USSR	16 OCT	13 APR 81	
1980 084G		12044	USSR	16 OCT	2 MAR 81	
1980 084H		12045	USSR	16 OCT	21 NOV 80	
1980 085B		12033	USSR	24 OCT	17 NOV 80	
1980 085C		12034	USSR	24 OCT	7 NOV 80	
1980 086A		12039	USSR	30 OCT	12 DEC 80	
1980 086B	COSMOS 1218	12042	USSR	30 OCT	2 NOV 80	
1980 088A	COSMOS 1219	12050	USSR	31 OCT	13 NOV 80	

[illegible]

1980 LAUNCHES (CONT.)

1980 0808	12051	USSR	31 OCT	4 NOV 80
1980 088C	12060	USSR	31 OCT	18 NOV 80
1980 088D	12061	USSR	31 OCT	24 NOV 80
1980 088F	12062	USSR	31 OCT	26 NOV 80
1980 088F	12063	USSR	31 OCT	23 NOV 80
1980 083G	12064	USSR	31 OCT	15 NOV 80
1980 0894	12055	USSR	4 NOV	5 NOV 80
1980 089F	13311	USSR	4 NOV	21 NOV 82
1980 089X	13327	USSR	4 NOV	23 JUL 82
1980 089AP	13331	USSR	4 NOV	28 APR 93
1980 089AG	13337	USSR	4 NOV	30 OCT 82
1980 089AQ	13347	USSR	4 NOV	22 DEC 82
1980 089AR	13348	USSR	4 NOV	6 OCT 82
1980 090A	12059	USSR	12 NOV	26 NOV 80
1980 090B	12059	USSR	12 NOV	20 NOV 80
1980 090C	12073	USSR	12 NOV	14 APR 81
1980 090D	12075	USSR	12 NOV	3 JAN 81
1980 090E	12033	USSR	12 NOV	22 DEC 80
1980 091B	12336	US	15 NOV	3 MAY 81
1980 092H	12067	USSR	16 NOV	13 DEC 80
1980 092C	12068	USSR	16 NOV	12 DEC 80
1980 094A	12077	USSR	27 NOV	10 DEC 80
1980 094B	12079	USSR	27 NOV	29 NOV 80
1980 095B	12080	USSR	27 NOV	22 DEC 80
1980 095C	12081	USSR	27 NOV	21 DEC 80
1980 095D	12082	USSR	27 NOV	8 DEC 80
1980 096A	12084	USSR	1 DEC	15 DEC 80
1980 096B	12085	USSR	1 DEC	9 DEC 80
1980 096C	12095	USSR	1 DEC	4 MAY 81
1980 096D	12096	USSR	1 DEC	15 MAR 81
1980 096E	12097	USSR	1 DEC	26 JAN 81
1980 101A	12100	USSR	1 DEC	28 DEC 80
1980 101B	12101	USSR	16 DEC	20 DEC 80
1980 101C	12127	USSR	16 DEC	15 JAN 81
1980 101D	12128	USSR	16 DEC	3 JAN 81
1980 101E	12129	USSR	16 DEC	30 DEC 80
1980 103B	12118	USSR	25 DEC	20 JAN 81
1980 103C	12119	USSR	25 DEC	14 JAN 81
1980 103D	12117	USSR	25 DEC	12 JAN 81
1980 104B	12122	USSR	26 DEC	28 DEC 80
1980 104C	12123	USSR	26 DEC	27 DEC 80
1980 104D	12137	USSR	26 DEC	20 APR 82
1980 104F	16869	USSR	26 DEC	26 OCT 86
1980 105A	12121	USSR	26 DEC	21 JAN 81
1980 105B	12124	USSR	26 DEC	30 DEC 80
1980 105C	12125	USSR	26 DEC	8 JAN 81
1980 105D	12126	USSR	26 DEC	13 JAN 81

1981 LAUNCHES

DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 001A	COSMOS 1237	12130	USSR	6 JAN	20 JAN 81	
1981 001B		12131	USSR	6 JAN	15 JAN 81	
1981 001C		12132	USSR	6 JAN	12 JAN 81	
1981 001D		12145	USSR	6 JAN	5 JUN 81	
1981 001E		12146	USSR	6 JAN	25 JAN 81	
1981 001F		12147	USSR	6 JAN	3 MAR 81	
1981 001G		12148	USSR	6 JAN	10 FEB 81	
1981 002C		12135	USSR	9 JAN	27 JAN 81	
1981 002D		12136	USSR	9 JAN	22 JAN 81	
1981 004A	COSMOS 1239	12140	USSR	16 JAN	28 JAN 81	
1981 004B		12141	USSR	16 JAN	20 JAN 81	
1981 005A	COSMOS 1240	12143	USSR	20 JAN	17 FEB 81	
1981 005B		12144	USSR	20 JAN	24 JAN 81	
1981 007A	PROGRESS 12	12152	USSR	24 JAN	20 MAR 81	
1981 007B		12153	USSR	24 JAN	27 JAN 81	
1981 009B		12157	USSR	30 JAN	14 FEB 81	
1981 009C		12158	USSR	30 JAN	9 FEB 81	
1981 010A	COSMOS 1243	12160	USSR	2 FEB	2 FEB 81	
1981 010B		12161	USSR	2 FEB	4 FEB 81	
1981 011A	INTERCOSMOS 21	12162	USSR	6 FEB	7 JUL 82	
1981 011B		12163	USSR	6 FEB	22 JUN 82	
1981 012B		12295	JAPAN	11 FEB	28 FEB 81	
1981 014A	COSMOS 1245	12299	USSR	13 FEB	27 FEB 81	
1981 014B		12309	USSR	13 FEB	21 FEB 81	
1981 014C		12312	USSR	13 FEB	1 APR 81	
1981 014D		12313	USSR	13 FEB	5 MAR 81	
1981 014E		12314	USSR	13 FEB	15 MAR 81	
1981 014F		12316	USSR	13 FEB	22 JUL 81	
1981 015A	COSMOS 1246	12301	USSR	18 FEB	13 MAR 81	
1981 015B		12302	USSR	18 FEB	21 FEB 81	
1981 015C		12304	USSR	19 FEB	13 MAR 81	
1981 015D		12305	USSR	19 FEB	25 FEB 81	
1981 016D		12306	USSR	19 FEB	13 APR 81	
1981 017A	ASTRO A	12307	JAPAN	21 FEB	11 JUL 91	
1981 017B		12308	JAPAN	21 FEB	26 MAY 91	
1981 017C		12310	JAPAN	21 FEB	25 NOV 81	
1981 019A		12315	US	23 FEB	20 JUN 81	
1981 020A	COSMOS 1249	12317	USSR	5 MAR	4 APR 81	
1981 020B		12318	USSR	5 MAR	8 MAR 81	
1981 021B		12550	USSR	5 MAR	22 JUN 81	
1981 021C		12552	USSR	5 MAR	19 JUL 81	
1981 023A	SOYUZ T-4	12334	USSR	12 MAR	26 MAY 81	
1981 023B		12335	USSR	12 MAR	14 MAR 81	
1981 024A	COSMOS 1253	12337	USSR	14 MAR	15 MAR 81	
1981 024B		12338	USSR	14 MAR	14 MAR 81	
1981 025B		12340	US	16 MAR	18 MAR 81	
1981 026A	COSMOS 1259	12341	USSR	17 MAR	31 MAR 81	
1981 026B		12342	USSR	17 MAR	25 MAR 81	
1981 026C		12350	USSR	17 MAR	11 APR 81	
1981 026D		12370	USSR	17 MAR	29 APR 81	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 026E		12380	USSR	17 MAR	8 JUL 81	
1981 026F		12381	USSR	17 MAR	30 AUG 81	
1981 026G		12382	USSR	17 MAR	19 APR 81	
1981 027B		12352	USSR	18 MAR	18 MAR 81	
1981 027C		12353	USSR	18 MAR	18 MAR 81	
1981 027D		12396	USSR	18 MAR	15 APR 82	
1981 027E		12397	USSR	18 MAR	15 APR 82	
1981 028A		12364	USSR	20 MAR	22 MAY 82	
1981 028B		12365	USSR	20 MAR	21 MAR 81	
1981 028C		13180	USSR	20 MAR	5 SEP 82	
1981 028D		13181	USSR	20 MAR	10 SEP 82	
1981 028H		13185	USSR	20 MAR	4 NOV 82	
1981 028J		13186	USSR	20 MAR	11 JAN 83	
1981 028N		13190	USSR	20 MAR	2 NOV 82	
1981 028R		13193	USSR	20 MAR	13 JUN 82	
1981 028S		13194	USSR	20 MAR	1 SEP 82	
1981 028T		13195	USSR	20 MAR	10 SEP 82	
1981 028U		13196	USSR	20 MAR	31 MAY 82	
1981 028W		13198	USSR	20 MAR	3 OCT 82	
1981 028X		13199	USSR	20 MAR	31 AUG 82	
1981 028Y		13200	USSR	20 MAR	16 JUN 82	
1981 028AA		13202	USSR	20 MAR	14 AUG 82	
1981 029AB		13203	USSR	20 MAR	21 JUN 82	
1981 028AC		13221	USSR	20 MAR	15 JUN 82	
1981 028AD		13222	USSR	20 MAR	14 AUG 82	
1981 028AE		13223	USSR	20 MAR	9 SEP 82	
1981 029AF		13224	USSR	20 MAR	31 DEC 82	
1981 028AG		13225	USSR	20 MAR	9 AUG 82	
1981 029AJ		13227	USSR	20 MAR	2 JUN 82	
1981 028AK		13228	USSR	20 MAR	4 NOV 82	
1981 028AM		13230	USSR	20 MAR	17 JUN 82	
1981 028AN		13231	USSR	20 MAR	19 AUG 82	
1981 028AQ		13233	USSR	20 MAR	8 DEC 82	
1981 028AR		13234	USSR	20 MAR	25 AUG 82	
1981 028AS		13235	USSR	20 MAR	17 OCT 82	
1981 028AX		13445	USSR	20 MAR	11 NOV 82	
1981 029A		12366	USSR	22 MAR	30 MAR 81	
1981 029B		12367	USSR	22 MAR	25 MAR 81	
1981 030B		12369	USSR	24 MAR	13 APR 81	
1981 030C		12370	USSR	24 MAR	12 APR 81	
1981 031B		12377	USSR	31 MAR	17 APR 81	
1981 031C		12378	USSR	31 MAR	15 APR 81	
1981 032A		12395	USSR	7 APR	21 APR 81	
1981 032B		12386	USSR	7 APR	13 APR 81	
1981 032C		12387	USSR	7 APR	20 APR 81	
1981 032D		12410	USSR	7 APR	23 APR 81	
1981 032E		12411	USSR	7 APR	26 APR 81	
1981 032F		12417	USSR	7 APR	24 APR 81	
1981 034A		12399	US	12 APR	14 APR 81	
1981 035A		12400	USSR	15 APR	29 APR 81	
SOYUZ 39						
1981 029A		12366	USSR	22 MAR	30 MAR 81	
1981 029B		12367	USSR	22 MAR	25 MAR 81	
1981 030B		12369	USSR	24 MAR	13 APR 81	
1981 030C		12370	USSR	24 MAR	12 APR 81	
1981 031B		12377	USSR	31 MAR	17 APR 81	
1981 031C		12378	USSR	31 MAR	15 APR 81	
1981 032A		12395	USSR	7 APR	21 APR 81	
1981 032B		12386	USSR	7 APR	13 APR 81	
1981 032C		12387	USSR	7 APR	20 APR 81	
1981 032D		12410	USSR	7 APR	23 APR 81	
1981 032E		12411	USSR	7 APR	26 APR 81	
1981 032F		12417	USSR	7 APR	24 APR 81	
1981 034A		12399	US	12 APR	14 APR 81	
1981 035A		12400	USSR	15 APR	29 APR 81	
COSMOS 1262						
1981 029A		12366	USSR	22 MAR	30 MAR 81	
1981 029B		12367	USSR	22 MAR	25 MAR 81	
1981 030B		12369	USSR	24 MAR	13 APR 81	
1981 030C		12370	USSR	24 MAR	12 APR 81	
1981 031B		12377	USSR	31 MAR	17 APR 81	
1981 031C		12378	USSR	31 MAR	15 APR 81	
1981 032A		12395	USSR	7 APR	21 APR 81	
1981 032B		12386	USSR	7 APR	13 APR 81	
1981 032C		12387	USSR	7 APR	20 APR 81	
1981 032D		12410	USSR	7 APR	23 APR 81	
1981 032E		12411	USSR	7 APR	26 APR 81	
1981 032F		12417	USSR	7 APR	24 APR 81	
1981 034A		12399	US	12 APR	14 APR 81	
1981 035A		12400	USSR	15 APR	29 APR 81	
COSMOS 1264						
1981 029A		12366	USSR	22 MAR	30 MAR 81	
1981 029B		12367	USSR	22 MAR	25 MAR 81	
1981 030B		12369	USSR	24 MAR	13 APR 81	
1981 030C		12370	USSR	24 MAR	12 APR 81	
1981 031B		12377	USSR	31 MAR	17 APR 81	
1981 031C		12378	USSR	31 MAR	15 APR 81	
1981 032A		12395	USSR	7 APR	21 APR 81	
1981 032B		12386	USSR	7 APR	13 APR 81	
1981 032C		12387	USSR	7 APR	20 APR 81	
1981 032D		12410	USSR	7 APR	23 APR 81	
1981 032E		12411	USSR	7 APR	26 APR 81	
1981 032F		12417	USSR	7 APR	24 APR 81	
1981 034A		12399	US	12 APR	14 APR 81	
1981 035A		12400	USSR	15 APR	29 APR 81	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 0358		12401	USSR	15 APR	23 APR 81	
1981 035C		12430	USSR	15 APR	24 OCT 81	
1981 035D		12431	USSR	15 APR	6 MAY 81	
1981 035E		12432	USSR	15 APR	4 MAY 81	
1981 035F		12433	USSR	15 APR	30 APR 81	
1981 036A		12402	USSR	16 APR	28 APR 81	
1981 036B		12403	USSR	16 APR	19 APR 81	
1981 036C		12425	USSR	15 APR	15 MAY 81	
1981 036D		12426	USSR	15 APR	1 MAY 81	
1981 036F		12427	USSR	16 APR	19 MAR 82	
1981 037A		12428	USSR	21 APR	20 MAY 81	
1981 037C		12434	USSR	21 APR	1 MAY 81	
1981 039A		12419	USSR	25 APR	29 JUL 82	
1981 039B		12420	USSR	25 APR	28 APR 81	
1981 039C		12421	USSR	25 APR	26 APR 81	
1981 039D		12475	USSR	25 APR	26 MAY 81	
1981 040A		12423	USSR	24 APR	12 MAY 81	
1981 040B		12424	USSR	26 APR	5 MAY 81	
1981 040C		12448	USSR	26 APR	20 MAY 81	
1981 040D		12449	USSR	26 APR	14 MAY 81	
1981 040E		12450	USSR	28 APR	15 MAY 81	
1981 040F		12451	USSR	28 APR	15 MAY 81	
1981 040G		12452	USSR	28 APR	14 MAY 81	
1981 042A		12454	USSR	14 MAY	22 MAY 81	
1981 042H		12455	USSR	14 MAY	16 MAY 81	
1981 044B		12460	US	15 MAY	17 APR 82	
1981 044C		12944	US	15 MAY	8 DEC 81	
1981 045A		12461	USSR	16 MAY	17 JUN 81	
1981 045B		12462	USSR	16 MAY	21 MAY 81	
1981 045C		12463	USSR	16 MAY	19 MAY 81	
1981 047A		12466	USSR	21 MAY	4 JUN 81	
1981 047B		12457	USSR	21 MAY	31 MAY 81	
1981 047C		12458	USSR	21 MAY	23 MAY 81	
1981 047D		12498	USSR	21 MAY	24 NOV 81	
1981 047E		12499	USSR	21 MAY	9 JUN 81	
1981 047F		12505	USSR	21 MAY	8 JUL 81	
1981 047G		12506	USSR	21 MAY	5 JUL 81	
1981 047H		12507	USSR	21 MAY	5 AUG 81	
1981 048A		12469	USSR	22 MAY	4 JUN 81	
1981 048B		12470	USSR	22 MAY	25 MAY 81	
1981 048C		12500	USSR	22 MAY	5 JUN 81	
1981 048D		12501	USSR	22 MAY	11 JUN 81	
1981 048E		12502	USSR	22 MAY	6 JUN 81	
1981 048F		12503	USSR	22 MAY	5 JUN 81	
1981 049B		12473	US	22 MAY	5 SEP 81	
1981 049C		12494	US	22 MAY	15 APR 82	
1981 051A		12471	INDIA	31 MAY	6 JUN 81	
1981 051B		12492	INDIA	31 MAY	6 JUN 81	
1981 052A		12495	USSR	3 JUN	3 JUL 81	
1981 052B		12496	USSR	3 JUN	7 JUN 81	
1981 052C						
1981 052D						
1981 052E						
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1981						

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
931 LAUNCHES (CONT.)						
1981 052C		12579	USSR	3 JUN	8 JUL 81	
1981 053B7		12732	USSR	4 JUN	3 AUG 82	
1981 0530F		12769	USSR	4 JUN	4 NOV 81	
1981 0532A		12914	USSR	4 JUN	29 OCT 81	
1981 0548		12513	USSR	9 JUN	27 JUN 81	
1981 054C		12514	USSR	9 JUN	23 JUN 81	
1981 054D		12515	USSR	9 JUN	22 JUN 81	
1981 055A	COSMOS 1276	12517	USSR	16 JUN	29 JUN 81	
1981 055B		12513	USSR	16 JUN	19 JUN 81	
1981 055C		12567	USSR	16 JUN	6 JUL 81	
1981 055D		12564	USSR	16 JUN	30 JUN 81	
1981 055E		12569	USSR	16 JUN	1 JUL 81	
1981 055F		12570	USSR	16 JUN	1 JUL 81	
1981 055A	COSMOS 1277	12520	USSR	17 JUN	1 JUL 81	
1981 055B		12521	USSR	17 JUN	26 JUN 81	
1981 055C		12522	USSR	17 JUN	22 JUN 81	
1981 055D		12523	USSR	17 JUN	26 JUN 81	
1981 055E		12524	USSR	17 JUN	29 JUN 81	
1981 055F		12525	USSR	17 JUN	29 JUN 81	
1981 055G		12526	USSR	17 JUN	22 JUN 81	
1981 055H		12573	USSR	17 JUN	23 JUN 81	
1981 055J		12574	USSR	17 JUN	31 JUL 81	
1981 055K		12575	USSR	17 JUN	12 DEC 81	
1981 057F		14125	ESA	17 JUN	26 AUG 81	
1981 0533		12543	USSR	19 JUN	17 JAN 91	
1981 059C		12549	USSR	19 JUN	28 JUL 81	
1981 060A	MOLNIYA 1-50	12556	USSR	19 JUN	29 JUL 81	
1981 060B		12557	USSR	24 JUN	14 DEC 91	
1981 060C		12558	USSR	24 JUN	4 AUG 81	
1981 061B		12565	USSR	24 JUN	22 JUL 81	
1981 061C		12566	USSR	25 JUN	26 JUN 81	
1981 061D		12603	USSR	25 JUN	28 JUN 81	
1981 061E		12604	USSR	26 JUN	15 APR 82	
1981 062A	COSMOS 1279	12571	USSR	26 JUN	12 SEP 83	
1981 062B		12572	USSR	1 JUL	15 JUL 81	
1981 062C		12576	USSR	1 JUL	14 JUL 81	
1981 062D		12590	USSR	1 JUL	2 JUL 81	
1981 062E		12591	USSR	1 JUL	20 DEC 81	
1981 062F		12592	USSR	1 JUL	7 SEP 81	
1981 062G		12593	USSR	1 JUL	16 JUL 81	
1981 063A	COSMOS 1280	12577	USSR	1 JUL	22 AUG 81	
1981 063B		12579	USSR	2 JUL	15 JUL 81	
1981 063C		12594	USSR	2 JUL	8 JUL 81	
1981 063D		12595	USSR	2 JUL	2 AUG 81	
1981 063E		12596	USSR	2 JUL	10 AUG 81	
1981 063F		12597	USSR	2 JUL	22 JUL 81	
1981 064A	COSMOS 1281	12583	USSR	7 JUL	22 JUL 81	
1981 064B		12584	USSR	7 JUL	21 JUL 81	
1981 064C		12600	USSR	7 JUL	17 JUL 81	
1981 064D		12601	USSR	7 JUL	20 AUG 81	
					6 SEP 81	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 064E		12602	USSR	7 JUL	9 DEC 81	
1981 065C	ISKRA	12607	USSR	10 JUL	7 OCT 81	
1981 065D		19236	USSR	10 JUL	16 APR 90	
1981 065A	COSMOS 1282	12583	USSR	15 JUL	14 AUG 81	
1981 066B		12507	USSR	15 JUL	19 JUL 81	
1981 067A	COSMOS 1283	12596	USSR	17 JUL	31 JUL 81	
1981 067B		12597	USSR	17 JUL	19 JUL 81	
1981 067C		12621	USSR	17 JUL	5 AUG 81	
1981 067D		12622	USSR	17 JUL	8 OCT 81	
1981 067E		12623	USSR	17 JUL	21 AUG 81	
1981 068A	COSMOS 1284	12614	USSR	29 JUL	12 AUG 81	
1981 068B		12617	USSR	29 JUL	31 JUL 81	
1981 068C		12683	USSR	29 JUL	16 OCT 81	
1981 068D		12684	USSR	29 JUL	29 AUG 81	
1981 068E		12685	USSR	29 JUL	16 AUG 81	
1981 068F		12686	USSR	29 JUL	6 SEP 81	
1981 069A		12619	USSR	30 JUL	1 AUG 81	
1981 069C		12620	USSR	30 JUL	31 JUL 81	
1981 069D		12633	USSR	30 JUL	20 APR 82	
1981 069E		12634	USSR	30 JUL	15 APR 82	
1981 069F		12625	US	3 AUG	19 FEB 83	
1981 070A	DE 2	12626	US	3 AUG	23 NOV 88	
1981 070C		12628	US	3 AUG	17 MAR 82	
1981 070D		12793	US	3 AUG	3 AUG 81	
1981 070E		12945	US	3 AUG	25 JAN 82	
1981 070F		12946	US	3 AUG	16 FEB 82	
1981 071A		12629	USSR	4 AUG	25 AUG 81	
1981 071C		12630	USSR	4 AUG	1 SEP 81	
1981 072A	COSMOS 1286	12631	USSR	4 AUG	16 OCT 82	
1981 072B		12632	USSR	4 AUG	4 AUG 81	
1981 072C		12631	USSR	4 AUG	22 OCT 82	
1981 073A		12773	US	5 AUG	10 APR 83	
1981 073B		12578	JAPAN	10 AUG	24 AUG 81	
1981 075C		12810	JAPAN	10 AUG	23 NOV 90	
1981 075A	COSMOS 1295	12637	USSR	13 AUG	13 SEP 81	
1981 075E		12663	USSR	13 AUG	17 AUG 81	
1981 075A	COSMOS 1297	12716	USSR	13 AUG	30 AUG 81	
1981 077B		12717	USSR	18 AUG	25 AUG 81	
1981 077C		12713	USSR	18 AUG	19 AUG 81	
1981 077D		12794	USSR	18 AUG	5 SEP 81	
1981 077E		12795	USSR	18 AUG	31 AUG 81	
1981 077F		12796	USSR	18 AUG	2 SEP 81	
1981 079B		12797	USSR	18 AUG	31 AUG 81	
1981 080A	COSMOS 1298	12776	USSR	21 AUG	2 OCT 81	
1981 080B		12777	USSR	21 AUG	24 AUG 81	
1981 081A		12784	USSR	24 AUG	17 NOV 81	
1981 081C		12807	USSR	24 AUG	7 SEP 81	
1981 081D		12803	USSR	24 AUG	2 FEB 89	
1981 081E		12808	USSR	24 AUG	27 SEP 81	
1981 081F	COSMOS 1301	12755	USSR	27 AUG	10 SEP 81	

DECAYED OBJECTS

INSTR- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 083b		12789	USSR	27 AUG	31 AUG 81	
1981 083C		12790	USSR	27 AUG	2 SEP 81	
1981 083D		12911	USSR	27 AUG	24 SEP 81	
1981 083E		12812	USSR	27 AUG	17 SEP 81	
1981 083F		12913	USSR	27 AUG	9 NOV 81	
1981 085A		12799	US	3 SEP	23 NOV 84	
1981 085B		12800	US	3 SEP	12 OCT 81	
1981 086A	COSMOS 1303	12801	USSR	4 SEP	18 SEP 81	
1981 086B		12802	USSR	4 SEP	12 SEP 81	
1981 086C		12805	USSR	4 SEP	5 SEP 81	
1981 086D		12805	USSR	4 SEP	5 SEP 81	
1981 086E		12839	USSR	4 SEP	9 OCT 81	
1981 086F		12840	USSR	4 SEP	25 OCT 81	
1981 086G		12841	USSR	4 SEP	6 FEB 82	
1981 088B		12819	USSR	11 SEP	5 OCT 81	
1981 088C		12820	USSR	11 SEP	3 OCT 81	
1981 088D		12821	USSR	11 SEP	13 JAN 82	
1981 088E		12822	USSR	11 SEP	4 DEC 81	
1981 089A	COSMOS 1306	12823	USSR	14 SEP	19 JUL 82	
1981 089B		12823	USSR	14 SEP	15 SEP 81	
1981 089C		13360	USSR	14 SEP	12 DEC 82	
1981 089D		13337	USSR	14 SEP	11 OCT 82	
1981 089E		13393	USSR	14 SEP	1 MAY 83	
1981 089F		13404	USSR	14 SEP	7 MAR 89	
1981 089G		13408	USSR	14 SEP	19 AUG 82	
1981 089H		13530	USSR	14 SEP	6 DEC 82	
1981 089J		14837	USSR	14 SEP	6 APR 89	
1981 090A	COSMOS 1307	12350	USSR	15 SEP	28 SEP 81	
1981 090B		12931	USSR	15 SEP	23 SEP 81	
1981 090C		12932	USSR	15 SEP	16 SEP 81	
1981 090D		12873	USSR	15 SEP	4 JAN 82	
1981 090E		12975	USSR	15 SEP	30 SEP 81	
1981 090F		12876	USSR	15 SEP	4 NOV 81	
1981 090G		12877	USSR	15 SEP	4 FEB 82	
1981 090H		12878	USSR	15 SEP	23 OCT 81	
1981 092A	COSMOS 1309	12937	USSR	15 SEP	1 OCT 81	
1981 092B		12338	USSR	15 SEP	21 SEP 81	
1981 093A	PRC 7A	12942	PRC	17 SEP	26 SEP 81	
1981 093B	PRC 9B	12943	PRC	17 SEP	6 OCT 82	
1981 093C		12844	PRC	19 SEP	22 NOV 81	
1981 093D		12945	PRC	19 SEP	17 AUG 82	
1981 093E	PRC 9C	12846	PRC	19 SEP	13 APR 83	
1981 093F		12347	PRC	19 SEP	25 NOV 81	
1981 093G		12824	PRC	19 SEP	22 MAY 82	
1981 093H		12835	PRC	19 SEP	20 OCT 81	
1981 093J		12890	PRC	19 SEP	16 NOV 81	
1981 093K		12958	PRC	19 SEP	3 APR 82	
1981 095A	COSMOS 1310	12352	USSR	23 SEP	17 SEP 81	
1981 095B		12353	USSR	23 SEP	15 APR 82	
1981 096B		12374	US	24 SEP		

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 097A	COSMOS 1311	12871	USSR	28 SEP	28 AUG 83	
1981 097B		12872	USSR	28 SEP	16 FEB 83	
1981 097C		13054	USSR	28 SEP	27 FEB 82	3V*
1981 097D		13055	USSR	29 SEP	26 FEB 82	
1981 097E		13667	USSR	28 SEP	5 DEC 82	
1981 097F		13668	USSR	28 SEP	5 DEC 82	
1981 097G		13594	USSR	28 SEP	17 DEC 82	
1981 097H		13695	USSR	28 SEP	16 DEC 82	
1981 097J		13723	USSR	28 SEP	22 DEC 82	
1981 097K		13724	USSR	26 SEP	23 DEC 82	
1981 097L		13729	USSR	28 SEP	24 DEC 82	
1981 097M		13731	USSR	28 SEP	18 DEC 82	
1981 097N		13732	USSR	28 SEP	17 DEC 82	
1981 097P		13733	USSR	26 SEP	17 DEC 82	
1981 097Q		13734	USSR	28 SEP	16 DEC 82	
1981 097R		13735	USSR	28 SEP	31 DEC 82	
1981 097S		13743	USSR	28 SEP	31 DEC 82	
1981 097T		13744	USSR	26 SEP	31 DEC 82	
1981 097U		13920	USSR	28 SEP	28 FEB 83	
1981 097V		13821	USSR	28 SEP	28 FEB 83	
1981 097W		13822	USSR	28 SEP	28 FEB 83	
1981 097X		13823	USSR	28 SEP	28 FEB 83	
1981 097Y		13824	USSR	28 SEP	28 FEB 83	
1981 097Z		13823	USSR	28 SEP	28 FEB 83	
1981 097AA		13831	USSR	28 SEP	28 FEB 83	
1981 097AB		13832	USSR	28 SEP	28 FEB 83	
1981 099A	COSMOS 1313	12881	USSR	1 OCT	15 OCT 81	
1981 099B		12882	USSR	1 OCT	5 OCT 81	
1981 099C		12883	USSR	1 OCT	2 OCT 81	
1981 099D		12910	USSR	1 OCT	16 OCT 81	
1981 099E		12911	USSR	1 OCT	16 OCT 81	
1981 099F		12912	USSR	1 OCT	26 OCT 81	
1981 100A	SME	12837	US	6 OCT	5 MAR 71	
1981 100B	UOSAT	12863	UK	6 OCT	13 OCT 89	
1981 100D		12891	US	6 OCT	14 NOV 81	
1981 100E		13405	US	6 OCT	19 OCT 32	
1981 101A	COSMOS 1314	12895	USSR	9 OCT	22 OCT 81	
1981 101B		12896	USSR	9 OCT	11 OCT 81	
1981 101C		12900	USSR	9 OCT	9 NOV 81	
1981 101D		12921	USSR	9 OCT	25 OCT 81	
1981 101E		12922	USSR	9 OCT	25 OCT 81	
1981 101F		12923	USSR	9 OCT	25 OCT 81	
1981 102H		12893	USSR	9 OCT	11 OCT 81	
1981 102C		12899	USSR	9 OCT	10 OCT 81	
1981 102D		12901	USSR	9 OCT	1 JUL 82	
1981 102E		12902	USSR	9 OCT	13 MAY 82	
1981 104A	COSMOS 1316	12905	USSR	15 OCT	29 OCT 81	
1981 104B		12913	USSR	15 OCT	23 OCT 81	
1981 104C		12924	USSR	15 OCT	8 NOV 81	
1981 104D		12925	USSR	15 OCT	31 OCT 81	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1981 LAUNCHES (CONT.)						
1981 104E		12926	USSR	15 OCT	31 OCT 81	
1981 105B		12916	USSR	17 OCT	4 NOV 81	
1981 105C		12917	USSR	17 OCT	6 NOV 81	
1981 105D		12918	USSR	17 OCT	8 NOV 81	
1981 105E		12923	USSR	30 OCT	31 OCT 81	
1981 106C		12929	USSR	30 OCT	31 OCT 81	
1981 106D		15599	USSR	30 OCT	29 FEB 82	
1981 107E		12931	US	31 OCT	2 NOV 81	
1981 108E		12934	USSR	31 OCT	23 NOV 81	
1981 108C		12935	USSR	31 OCT	14 NOV 81	
1981 109A	COSMOS 1318	12936	USSR	3 NOV	4 DEC 81	
1981 109G		12937	USSR	3 NOV	6 NOV 81	
1981 110E		12938	USSR	4 NOV	5 NOV 81	
1981 110C		12941	USSR	4 NOV	5 NOV 81	
1981 110E		15609	USSR	4 NOV	5 MAR 82	
1981 111A	SFS 2	12953	US	12 NOV	14 NOV 81	
1981 112A	COSMOS 1319	12954	USSR	13 NOV	27 NOV 81	
1981 112B		12955	USSR	13 NOV	22 NOV 81	
1981 112C		12956	USSR	13 NOV	16 NOV 81	
1981 112D		12957	USSR	13 NOV	13 NOV 81	
1981 112E		12970	USSR	13 NOV	13 DEC 81	
1981 112F		12971	USSR	13 NOV	15 APR 82	
1981 112G		12972	USSR	13 NOV	2 JAN 82	
1981 112H		12973	USSR	13 NOV	27 DEC 81	
1981 112J		12974	USSR	13 NOV	6 DEC 81	
1981 113E		12960	USSR	17 NOV	27 NOV 81	
1981 113C		12961	USSR	17 NOV	29 NOV 81	
1981 114B		13098	US	20 NOV	26 FEB 89	
1981 115A	BHASKARA 2	12968	INDIA	20 NOV	30 NOV 91	
1981 115B		12969	USSR	20 NOV	8 OCT 89	
1981 118A	COSMOS 1329	12939	USSR	4 DEC	18 DEC 81	
1981 118B		12990	USSR	4 DEC	8 DEC 81	
1981 118C		12991	USSR	4 DEC	10 DEC 81	
1981 118D		13004	USSR	4 DEC	5 JAN 82	
1981 113E		13005	USSR	4 DEC	20 DEC 81	
1981 113F		13006	USSR	4 DEC	22 DEC 81	
1981 121A	COSMOS 1330	13008	USSR	19 DEC	19 JAN 82	
1981 121B		13009	USSR	19 DEC	23 DEC 81	
1981 122C		13025	ESA	20 DEC	21 NOV 83	
1981 123B		13013	USSR	23 DEC	16 JAN 82	
1981 123C		13014	USSR	23 DEC	10 JAN 82	
1982 LAUNCHES						
1982 002A	COSMOS 1332	13031	USSR	12 JAN	25 JAN 82	
1982 002B		13032	USSR	12 JAN	16 JAN 82	
1982 004B		13038	US	16 JAN	2 NOV 88	
1982 005A	COSMOS 1334	13036	USSR	20 JAN	3 FEB 82	
1982 005B		13037	USSR	20 JAN	24 JAN 82	
1982 005C		13033	USSR	20 JAN	22 JAN 92	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECEASED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)							
1982 0050		13039		USSR	20 JAN	20 JAN 82	
1982 0051		13049		USSR	20 JAN	4 FEB 82	
1982 0052		13049		USSR	20 JAN	6 FEB 82	
1982 0053		13050		USSR	20 JAN	17 FEB 82	
1982 0054		13051		USSR	20 JAN	6 FEB 82	
1982 0055		13052		USSR	20 JAN	5 FEB 82	
1982 0056		13040		US	21 JAN	23 MAY 82	
1982 0057		13041		US	21 JAN	22 JAN 82	
1982 007A		13042		USSR	29 JAN	5 APR 87	
1982 007B		13043		USSR	29 JAN	24 NOV 85	
1982 007C		13044		USSR	29 JAN	30 JAN 82	
1982 007D		13140		USSR	29 JAN	15 JUN 82	
1982 007E		13141		USSR	29 JAN	11 JUN 82	
1982 007F		13246		USSR	29 JAN	17 AUG 82	
1982 007G		13247		USSR	29 JAN	14 AUG 82	
1982 007H		13248		USSR	29 JAN	11 AUG 82	
1982 007J		13249		USSR	29 JAN	1 AUG 82	
1982 007K		13250		USSR	29 JAN	29 JUL 82	
1982 007L		13251		USSR	29 JAN	26 JUL 82	
1982 007M		13252		USSR	29 JAN	24 JUL 82	
1982 007N		13273		USSR	29 JAN	7 JUL 82	
1982 007P		13419		USSR	29 JAN	5 OCT 82	
1982 007Q		13420		USSR	29 JAN	5 OCT 82	
1982 007R		13421		USSR	29 JAN	29 SEP 82	
1982 007S		13422		USSR	29 JAN	28 SEP 82	
1982 007T		13429		USSR	29 JAN	4 OCT 82	
1982 007U		13430		USSR	29 JAN	4 OCT 82	
1982 007V		14052		USSR	29 JAN	11 JUN 83	
1982 007W		14053		USSR	29 JAN	10 JUN 83	
1982 007X		14054		USSR	29 JAN	11 JUN 83	
1982 007Y		14055		USSR	29 JAN	9 JUN 83	
1982 007Z		14056		USSR	29 JAN	9 JUN 83	
1982 007AA		14064		USSR	29 JAN	9 JUN 83	
1982 008A		13045		USSR	30 JAN	26 FEB 82	
1982 008C		13046		USSR	29 JAN	2 FEB 82	
1982 009B		13047		USSR	29 JAN	31 JAN 82	
1982 009C		13057		USSR	5 FEB	7 FEB 82	
1982 009E		13059		USSR	5 FEB	6 FEB 82	
1982 009F		13060		USSR	5 FEB	26 NOV 84	
1982 010A		13061		USSR	11 FEB	25 JUL 82	
1982 010J		13062		USSR	11 FEB	11 FEB 82	
1982 011A		13063		USSR	15 FEB	2 MAR 82	
1982 011B		13064		USSR	16 FEB	24 FEB 82	
1982 011C		13075		USSR	16 FEB	21 MAR 82	
1982 011D		13077		USSR	16 FEB	27 SEP 82	
1982 011E		13078		USSR	16 FEB	6 APR 82	
1982 011F		13079		USSR	16 FEB	19 MAR 82	
1982 014E		13136		US	26 FEB	31 AUG 89	
1982 015A		13071		USSR	26 FEB	8 MAR 82	
1982 015C		13072		USSR	26 FEB	13 MAR 82	
COSMOS 1335							
COSMOS 1336							
COSMOS 1337							
COSMOS 1338							
8W*							

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 016B		13081	USSR	3 MAR	27 MAR 82	
1982 016C		13082	USSR	3 MAR	16 MAR 82	
1982 017B		13087	US	5 MAR	6 MAY 83	
1982 019A	COSMOS 1342	13084	USSR	5 MAR	19 MAR 82	
1982 018B		13035	USSR	5 MAR	9 MAR 82	
1982 018C		13100	USSR	5 MAR	21 MAR 82	
1982 018D		13101	USSR	5 MAR	22 MAR 82	
1982 018E		13102	USSR	5 MAR	1 APR 82	
1982 020B		13093	USSR	15 MAR	16 MAR 82	
1982 020C		13094	USSR	15 MAR	16 MAR 82	
1982 020D		13095	USSR	15 MAR	16 MAR 82	
1982 020E		13099	USSR	15 MAR	14 SEP 83	
1982 021A	COSMOS 1343	13096	USSR	17 MAR	31 MAR 82	
1982 021B		13097	USSR	17 MAR	21 MAR 82	
1982 021C		13115	USSR	17 MAR	5 APR 82	
1982 021D		13116	USSR	17 MAR	1 APR 82	
1982 021E		13117	USSR	17 MAR	1 APR 82	
1982 022A	STS 3	13106	US	22 MAR	1 APR 82	BT*
1982 023B		13109	USSR	24 MAR	30 MAR 82	
1982 023C		13109	USSR	24 MAR	12 APR 82	
1982 026A	COSMOS 1345	13118	USSR	24 MAR	19 APR 82	
1982 026B		13119	USSR	31 MAR	27 SEP 89	
1982 028A	COSMOS 1347	13122	USSR	31 MAR	10 AUG 89	
1982 028E		13123	USSR	2 APR	21 MAY 82	
1982 029B		13125	USSR	2 APR	5 APR 82	
1982 029C		13126	USSR	7 APR	5 MAY 82	
1982 031B		13137	US	7 APR	27 APR 82	
1982 032A	COSMOS 1350	13134	USSR	10 APR	18 APR 84	
1982 032B		13135	USSR	15 APR	16 MAY 82	
1982 033A	SALYUT 7	13138	USSR	15 APR	18 APR 82	
1982 033B		13139	USSR	19 APR	7 FEB 91	BX*
1982 033C	ISKRA 2	13176	USSR	19 APR	24 APR 82	XX*
1982 033D		13204	USSR	17 MAY	9 JUL 92	
1982 033E		13270	USSR	19 APR	20 JUN 82	
1982 033F		13274	USSR	19 APR	24 JUN 82	
1982 033G		13275	USSR	19 APR	27 JUN 82	
1982 033H		13287	USSR	19 APR	27 JUN 82	
1982 033J		13291	USSR	19 APR	2 JUL 82	
1982 033K		13299	USSR	19 APR	9 JUL 82	
1982 033L		13332	USSR	19 APR	12 JUL 82	
1982 033M		13393	USSR	19 APR	11 AUG 82	
1982 033N		13409	USSR	19 APR	21 AUG 82	
1982 033P		13410	USSR	19 APR	25 AUG 82	
1982 033Q		13417	USSR	19 APR	13 AUG 82	
1982 033R		13419	USSR	19 APR	1 SEP 82	
1982 033S		13423	USSR	19 APR	24 AUG 82	
1982 033T		13424	USSR	19 APR	31 AUG 82	
1982 033U		13435	USSR	19 APR	2 SEP 82	
1982 033V		13436	USSR	19 APR	29 AUG 82	
1982 033W		13437	USSR	19 APR	7 OCT 82	
1982 033X		13439	USSR	19 APR	6 SEP 82	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 033X		13440	USSR	19 APR	27 SEP 82	
1982 033Y		13522	USSR	19 APR	3 OCT 82	
1982 033Z		13523	USSR	19 APR	2 OCT 82	
1982 033AA		13541	USSR	19 APR	1 OCT 82	
1982 033AB		13560	USSR	19 APR	4 OCT 82	
1982 033AC		13596	USSR	19 APR	26 OCT 82	
1982 033AD		13663	USSR	18 NOV	16 DEC 82	
1982 033AE		13664	USSR	19 APR	26 DEC 82	
1982 033AF		13700	USSR	19 APR	26 MAR 83	
1982 033AG		14386	USSR	19 APR	16 NOV 83	
1982 033AH		14387	USSR	19 APR	19 FEB 84	
1982 033AJ		14388	USSR	19 APR	1 NOV 83	
1982 033AK		14392	USSR	19 APR	15 MAR 84	
1982 033AL		14393	USSR	19 APR	29 OCT 83	
1982 033AM		14485	USSR	19 APR	17 NOV 83	
1982 033AN		14486	USSR	19 APR	16 NOV 83	
1982 033AP		14487	USSR	19 APR	17 NOV 83	
1982 033AS		14857	USSR	19 APR	29 MAR 84	
1982 033AT		14858	USSR	19 APR	27 MAR 84	
1982 033AU		14859	USSR	19 APR	4 APR 84	
1982 033AV		14860	USSR	19 APR	3 APR 84	
1982 033AW		14861	USSR	19 APR	11 APR 84	
1982 033AX		14862	USSR	19 APR	13 APR 84	
1982 033AY		14863	USSR	19 APR	3 APR 84	
1982 033AZ		14864	USSR	19 APR	14 APR 84	
1982 033BA		14870	USSR	19 APR	27 APR 84	
1982 033BB		14871	USSR	19 APR	15 APR 84	
1982 033BE		14957	USSR	19 APR	13 MAY 84	
1982 033BF		14958	USSR	19 APR	14 MAY 84	
1982 033BH		14975	USSR	19 APR	24 MAY 84	
1982 033BJ		14976	USSR	19 APR	26 MAY 84	
1982 033BL		15105	USSR	19 APR	7 AUG 84	
1982 033BM		15106	USSR	19 APR	18 AUG 84	
1982 033BN		15107	USSR	19 APR	14 AUG 84	
1982 033BP		15109	USSR	19 APR	16 AUG 84	
1982 033BQ		15111	USSR	19 APR	27 JUL 84	
1982 033BR		15112	USSR	19 APR	30 JUL 84	
1982 033BT		15114	USSR	19 APR	26 AUG 84	
1982 033BV		15128	USSR	19 APR	9 AUG 84	
1982 033BY		15133	USSR	19 APR	18 AUG 84	
1982 033BZ		15134	USSR	19 APR	4 AUG 84	
1982 033CC		15138	USSR	19 APR	18 AUG 84	
1982 033CT		15304	USSR	19 APR	26 SEP 84	
1982 033ET		15934	USSR	19 APR	24 AUG 85	
1982 033EU		15937	USSR	19 APR	12 AUG 85	
1982 033EW		15970	USSR	19 APR	15 JAN 86	
1982 033FQ		16164	USSR	19 APR	17 FEB 86	
1982 033FT		16167	USSR	19 APR	19 FEB 86	
1982 033GV		16750	USSR	19 APR	19 JUN 86	
1982 033GZ		16811	USSR	19 APR	31 AUG 86	

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INTER- NATIONAL DESIGNATION		NAME	DECAYED OBJECTS		NOTES	
		CATALOG NUMBER	SOURCE	LAUNCH	DECAY	
1982 LAUNCHES (CONT.)						
1982 033HJ		17109	USSR	19 APR	29 MAR 87	
1982 034A	COSMOS 1351	13142	USSR	21 APR	14 MAR 83	
1982 034B		13143	USSR	21 APR	22 FEB 83	
1982 034C		13833	USSR	21 APR	27 FEB 83	
1982 034D		13835	USSR	21 APR	25 FEB 83	
1982 034E		13837	USSR	21 APR	26 FEB 83	
1982 034F		13838	USSR	21 APR	25 FEB 83	
1982 034G		13839	USSR	21 APR	25 FEB 83	
1982 034H		13840	USSR	21 APR	3 MAR 83	
1982 034J		13841	USSR	21 APR	27 FEB 83	
1982 034K		13842	USSR	21 APR	2 MAR 83	
1982 034L		13852	USSR	21 APR	26 FEB 83	
1982 034M		13853	USSR	21 APR	26 FEB 83	
1982 034N		13854	USSR	21 APR	26 FEB 83	
1982 034P		13855	USSR	21 APR	26 FEB 83	
1982 034Q		13856	USSR	21 APR	26 FEB 83	
1982 034R		13857	USSR	21 APR	5 MAR 83	
1982 034S		13858	USSR	21 APR	27 FEB 83	
1982 034T		13859	USSR	21 APR	26 FEB 83	
1982 034U		13860	USSR	21 APR	26 FEB 83	
1982 034V		13861	USSR	21 APR	26 FEB 83	
1982 034W		13862	USSR	21 APR	26 FEB 83	
1982 034X		13863	USSR	21 APR	26 FEB 83	
1982 034Y		13864	USSR	21 APR	26 FEB 83	
1982 034Z		13865	USSR	21 APR	3 MAR 83	
1982 034AA		13866	USSR	21 APR	26 FEB 83	
1982 034A3		13867	USSR	21 APR	25 FEB 83	
1982 035A	COSMOS 1352	13144	USSR	21 APR	5 MAY 82	
1982 035B		13145	USSR	21 APR	29 APR 82	
1982 035C		13155	USSR	21 APR	14 JUN 82	
1982 035D		13156	USSR	21 APR	30 NOV 82	
1982 035E		13157	USSR	21 APR	30 MAY 82	
1982 035F		13158	USSR	21 APR	2 JUL 82	
1982 036A	COSMOS 1353	13146	USSR	23 APR	6 MAY 82	
1982 036B		13147	USSR	23 APR	26 APR 82	
1982 036C		13159	USSR	23 APR	10 MAY 82	
1982 036A		13150	USSR	29 APR	7 MAR 84	
1982 036B	COSMOS 1355	13151	USSR	29 APR	29 APR 82	
1982 036C		14265	USSR	29 APR	13 SEP 83	
1982 036D		14266	USSR	29 APR	20 AUG 83	
1982 036E		14267	USSR	29 APR	20 SEP 83	
1982 036F		14268	USSR	29 APR	31 AUG 83	
1982 036G		14269	USSR	29 APR	25 AUG 83	
1982 036H		14270	USSR	29 APR	12 SEP 83	
1982 036K		14271	USSR	29 APR	14 AUG	
1982 036K		14272	USSR	29 APR	12 SEP 83	
1982 036L		14273	USSR	29 APR	20 AUG 83	
1982 036M		14274	USSR	29 APR	26 SEP 83	
1982 036N		14275	USSR	29 APR	27 AUG 83	
1982 036P		14276	USSR	29 APR	22 AUG 83	

DECAVED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
1962 0390		14279	USSR	29 APR	29 AUG 83	
1962 039P		14290	USSR	29 APR	26 NOV 83	
1962 039S		14281	USSR	29 APR	24 AUG 83	
1962 039W		14342	USSR	29 APR	20 NOV 83	
1962 039Y		14436	USSR	29 APR	23 DEC 83	
1962 034Z		14632	USSR	29 APR	13 FEB 84	
1962 039AA		14683	USSR	29 APR	14 FEB 84	
1962 039A9		14684	USSR	29 APR	11 FEB 84	
1962 039AC		14635	USSR	29 APR	5 FEB 84	
1962 039AD		14685	USSR	29 APR	14 FEB 84	
1962 039AE		14687	USSR	29 APR	5 FEB 84	
1962 039AF		14697	USSR	29 APR	3 FEB 84	
1962 041A		13170	US	11 MAY	5 DEC 82	
1962 041B		13171	US	11 MAY	13 MAY 82	
1962 042A	SOYUZ T-5	13173	USSR	13 MAY	27 AUG 82	
1962 042B		13174	USSR	13 MAY	15 MAY 82	
1962 043B		13592	USSR	14 MAY	29 SEP 82	
1962 043C		13593	USSR	14 MAY	19 OCT 82	
1962 043E		13602	USSR	14 MAY	16 OCT 82	
1962 043F		13615	USSR	14 MAY	8 OCT 82	
1962 044B		13173	USSR	17 MAY	18 MAY 82	
1962 044C		13179	USSR	17 MAY	19 MAY 82	
1962 044D		13217	USSR	17 MAY	14 SEP 83	
1962 044E		13218	USSR	17 MAY	14 SEP 83	
1962 045B		13204	USSR	20 MAY	17 JUN 82	
1962 045C		13207	USSR	20 MAY	4 JUN 82	
1962 046A	COSMOS 1368	13209	USSR	21 MAY	3 JUN 82	
1962 046B		13209	USSR	21 MAY	29 MAY 82	
1962 046C		13254	USSR	21 MAY	6 JUN 82	
1962 046D		13255	USSR	21 MAY	6 JUN 82	
1962 046E		13256	USSR	21 MAY	9 JUN 82	
1962 047A	PROGRESS 13	13210	USSR	23 MAY	6 JUN 82	
1962 047B		13211	USSR	23 MAY	25 MAY 82	
1962 047C		13212	USSR	23 MAY	25 MAY 82	
1962 048A		13213	USSR	25 MAY	8 JUN 82	
1962 048B	COSMOS 1369	13214	USSR	25 MAY	30 MAY 82	
1962 049C		13215	USSR	25 MAY	25 MAY 82	
1962 049D		13257	USSR	25 MAY	27 JUN 82	
1962 049E		13258	USSR	25 MAY	15 JUN 82	
1962 049A	COSMOS 1370	13219	USSR	26 MAY	11 JUL 82	
1962 049B		13220	USSR	26 MAY	31 MAY 82	
1962 050D		13233	USSR	26 MAY	12 JUL 82	
1962 050C		13232	USSR	26 MAY	23 JUN 82	
1962 050B		13240	USSR	26 MAY	1 JUN 82	
1962 052B		13411	USSR	1 JUN	9 SEP 82	
1962 052C		13412	USSR	1 JUN	13 AUG 82	
1962 053A	COSMOS 1373	13244	USSR	2 JUN	15 JUN 82	
1962 053B		13245	USSR	2 JUN	11 JUN 82	
1962 053C		13276	USSR	2 JUN	13 JUL 82	
1962 053D		13277	USSR	2 JUN	15 AUG 82	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 053E		13278	USSR	2 JUN	4 NOV 82	
1982 053F		13279	USSR	2 JUN	5 AUG 82	
1982 054A	COSMOS 1374	13257	USSR	3 JUN	3 JUN 82	
1982 054B		13258	USSR	3 JUN	5 JUN 82	
1982 054C		13280	USSR	3 JUN	3 JUN 82	
1982 056A	COSMOS 1376	13283	USSR	9 JUN	22 JUN 82	
1982 056B		13264	USSR	8 JUN	12 JUN 82	
1982 056C		13282	USSR	8 JUN	14 JUL 82	
1982 056D		13289	USSR	8 JUN	29 JUN 82	
1982 056E		13290	USSR	8 JUN	22 JUN 82	
1982 057A	COSMOS 1377	13265	USSR	8 JUN	22 JUL 82	
1982 057B		13265	USSR	8 JUN	12 JUN 82	
1982 059B		13254	US	9 JUN	22 MAR 90	
1982 060A	COSMOS 1379	13281	USSR	14 JUN	19 JUN 82	
1982 060B		13284	USSR	14 JUN	18 JUN 82	
1982 061A	COSMOS 1380	13282	USSR	18 JUN	27 JUN 82	
1982 061B		13285	USSR	18 JUN	25 JUN 82	
1982 062A	COSMOS 1381	13283	USSR	18 JUN	1 JUL 82	
1982 062B		13285	USSR	18 JUN	28 JUN 82	
1982 062C		13305	USSR	18 JUN	11 AUG 82	
1982 062D		13306	USSR	18 JUN	10 SEP 82	
1982 062E		13307	USSR	18 JUN	13 JUL 82	
1982 062F		13303	USSR	18 JUN	24 FEB 83	
1982 063A	SOYUZ T-6	13272	USSR	24 JUN	2 JUL 82	
1982 063B		13273	USSR	24 JUN	26 JUN 82	
1982 0643		13295	USSR	25 JUN	7 AUG 82	
1982 064C		13297	USSR	25 JUN	15 JUL 82	
1982 065A	STS 4	13300	US	27 JUN	4 JUL 82	JT*
1982 067A	COSMOS 1384	13303	USSR	30 JUN	30 JUL 82	
1982 0673		13304	USSR	30 JUN	5 JUL 82	
1982 068A	COSMOS 1385	13345	USSR	6 JUL	20 JUL 82	
1982 068B		13346	USSR	6 JUL	8 JUL 82	
1982 063C		13370	USSR	5 JUL	20 JUL 82	
1982 068D		13371	USSR	6 JUL	17 AUG 82	
1982 068E		13372	USSR	6 JUL	18 OCT 82	
1982 068F		13373	USSR	6 JUL	9 AUG 82	
1982 068G	PROGRESS 14	13374	USSR	6 JUL	19 AUG 82	
1982 070A		13361	USSR	10 JUL	13 AUG 82	
1982 070B		13362	USSR	10 JUL	12 JUL 82	
1982 071A	COSMOS 1387	13365	USSR	13 JUL	26 JUL 82	
1982 071C		13364	USSR	13 JUL	17 JUL 82	
1982 071C		13388	USSR	13 JUL	31 JUL 82	
1982 071D		13369	USSR	13 JUL	27 JUL 82	
1982 0723		13363	US	15 JUL	12 JUL 84	
1982 0749		13344	USSR	21 JUL	20 SEP 82	
1982 074C		13385	USSR	21 JUL	3 SEP 82	
1982 075A	COSMOS 1396	13391	USSR	27 JUL	10 AUG 82	
1982 075B		13392	USSR	27 JUL	1 AUG 82	
1982 075C		13405	USSR	27 JUL	19 AUG 82	
1982 075D		13407	USSR	27 JUL	12 AUG 82	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECAYED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)							
1982 076A	COSMOS 1397	13394		USSR	29 JUL	18 MAY 83	BY*
1982 075B		13395		USSR	29 JUL	21 APR 83	
1982 076C		13981		USSR	29 JUL	22 APR 83	
1982 076D		13982		USSR	29 JUL	21 APR 83	
1982 075E		13986		USSR	29 JUL	13 APR 83	
1982 076F		13987		USSR	29 JUL	25 APR 83	
1982 076G		13989		USSR	29 JUL	18 APR 83	
1982 075H		13989		USSR	29 JUL	13 APR 83	
1982 076J		14008		USSR	29 JUL	24 APR 83	
1982 076K		14009		USSR	29 JUL	23 APR 83	
1982 076L		14010		USSR	29 JUL	24 APR 83	
1982 076M		14011		USSR	29 JUL	25 APR 83	
1982 076N		14012		USSR	29 JUL	24 APR 83	
1982 076P		14013		USSR	29 JUL	24 APR 83	
1982 076Q		14013		USSR	29 JUL	24 APR 83	
1982 076R		14019		USSR	29 JUL	24 APR 83	
1982 076S		14020		USSR	29 JUL	26 APR 83	
1982 076T		14021		USSR	29 JUL	24 APR 83	
1982 076U		14022		USSR	29 JUL	25 APR 83	
1982 076V		14023		USSR	29 JUL	27 APR 83	
1982 076W		14024		USSR	29 JUL	27 APR 83	
1982 076X		14025		USSR	29 JUL	24 APR 83	
1982 076Y		14031		USSR	29 JUL	24 APR 83	
1982 076Z		14035		USSR	29 JUL	25 APR 83	
1982 077A	COSMOS 1398	13395		USSR	3 AUG	13 AUG 82	
1982 077B		13397		USSR	3 AUG	7 AUG 82	
1982 077C		13414		USSR	3 AUG	13 AUG 82	
1982 077D		13415		USSR	3 AUG	13 AUG 82	
1982 078A	COSMOS 1399	13399		USSR	4 AUG	16 SEP 82	
1982 078B		13400		USSR	4 AUG	8 AUG 82	
1982 078C		13401		USSR	4 AUG	8 AUG 82	
1982 080A	SOYUZ T-7	13425		USSR	19 AUG	10 DEC 82	
1982 080B		13426		USSR	19 AUG	21 AUG 82	
1982 081A	COSMOS 1401	13427		USSR	20 AUG	3 SEP 82	
1982 081B		13428		USSR	20 AUG	25 AUG 82	
1982 081C		13494		USSR	20 AUG	7 SEP 82	
1982 081D		13495		USSR	20 AUG	9 SEP 82	
1982 081E		13496		USSR	20 AUG	22 SEP 82	
1982 082B		13438		US	26 AUG	18 SEP 82	
1982 082C		13447		US	26 AUG	23 AUG 85	
1982 083B		13433		USSR	27 AUG	12 SEP 82	
1982 093C		13434		USSR	27 AUG	10 SEP 82	
1982 083D		13437		USSR	27 AUG	2 SEP 82	
1982 064A	COSMOS 1402	13441		USSR	30 AUG	23 JAN 83	
1982 084B		13747		USSR	30 AUG	30 DEC 82	
1982 084C		13748		USSR	30 AUG	7 FEB 83	
1982 085A	COSMOS 1403	13449		USSR	1 SEP	15 SEP 82	
1982 085B		13450		USSR	1 SEP	9 SEP 82	
1982 085C		13452		USSR	1 SEP	2 SEP 82	
1982 085D		13542		USSR	1 SEP	5 APR 83	

INTER- NATIONAL DESIGNATION	NAME	DECEASED SUBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1962 LAUNCHES (CONT.)						
1962 035E		13543	USSR	1 SEP	30 OCT 82	
1962 035F		13545	USSR	1 SEP	14 OCT 82	
1962 035G		13551	USSR	1 SEP	26 OCT 82	
1962 036A	COSMOS 1404	13449	USSR	1 SEP	15 SEP 82	
1962 036B		13451	USSR	1 SEP	10 SEP 82	
1962 036C		13453	USSR	1 SEP	2 SEP 82	
1962 036D		13454	USSR	1 SEP	3 SEP 82	
1962 036E		13544	USSR	1 SEP	29 OCT 82	
1962 036F		13543	USSR	1 SEP	17 OCT 82	
1962 036G		13549	USSR	1 SEP	12 APR 83	
1962 036H		13550	USSR	1 SEP	30 OCT 82	
1962 037A		13508	USSR	4 SEP	5 FEB 84	
1962 037B		13509	USSR	4 SEP	5 SEP 82	
1962 037C		14599	USSR	4 SEP	3 JAN 84	
1962 038D		14600	USSR	4 SEP	12 JAN 84	
1962 038E		14601	USSR	4 SEP	3 JAN 84	
1962 038F		14602	USSR	4 SEP	1 JAN 84	
1962 038G		14603	USSR	4 SEP	8 JAN 84	
1962 038H		14604	USSR	4 SEP	5 JAN 84	
1962 038J		14605	USSR	4 SEP	17 FEB 84	
1962 038K		14606	USSR	4 SEP	3 JAN 84	
1962 038L		14636	USSR	4 SEP	8 JAN 84	
1962 038M		14637	USSR	4 SEP	10 JAN 84	
1962 038P		14638	USSR	4 SEP	31 DEC 83	
1962 038Q		14639	USSR	4 SEP	1 JAN 84	
1962 038R		14640	USSR	4 SEP	28 DEC 83	
1962 038S		14641	USSR	4 SEP	1 JAN 84	
1962 038T		14642	USSR	4 SEP	30 DEC 83	
1962 038U		14643	USSR	4 SEP	4 JAN 84	
1962 038V		14644	USSR	4 SEP	30 DEC 83	
1962 038W		14645	USSR	4 SEP	31 DEC 83	
1962 038X		14545	USSR	4 SEP	13 JAN 84	
1962 038Y		14647	USSR	4 SEP	6 JAN 84	
1962 038Z		14648	USSR	4 SEP	21 FEB 84	
1962 039AA		14549	USSR	4 SEP	4 JAN 84	
1962 039AB		14650	USSR	4 SEP	9 JAN 84	
1962 039AC		14651	USSR	4 SEP	5 JAN 84	
1962 039AD		14652	USSR	4 SEP	27 FEB 84	
1962 039AE		14653	USSR	4 SEP	28 JAN 84	
1962 039AF		14654	USSR	4 SEP	14 JAN 84	
1962 039AG		14655	USSR	4 SEP	3 FEB 84	
1962 039AH		14656	USSR	4 SEP	19 FEB 84	
1962 039AJ		14657	USSR	4 SEP	31 JAN 84	
1962 039A	COSMOS 1406	14658	USSR	4 SEP	21 JAN 84	
1962 039B		13519	USSR	8 SEP	21 SEP 82	
1962 039C		13520	USSR	8 SEP	11 SEP 82	
1962 039D		13581	USSR	8 SEP	25 SEP 82	
1962 039E		13582	USSR	8 SEP	23 SEP 82	
1962 039F		13521	PRC	9 SEP	21 SEP 82	
1962 039G	PRC 12	13540	PRC	9 SEP	9 SEP 82	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1982 LAUNCHES (CONT.)						
1982 090C		13557	PRC	9 SEP	11 SEP 82	
1982 091A	COSMOS 1407	13546	USSR	15 SEP	16 OCT 82	
1982 091B		13547	USSR	15 SEP	19 SEP 82	
1982 091C		13555	USSR	16 SEP	18 SEP 82	
1982 091C		13556	USSR	16 SEP	17 SEP 82	
1982 093D		13583	USSR	16 SEP	12 OCT 83	
1982 093E		13584	USSR	16 SEP	14 SEP 83	
1982 094A	PROGRESS 15	13553	USSR	18 SEP	16 OCT 82	
1982 094C		13552	USSR	18 SEP	20 SEP 82	
1982 095A		13586	USSR	22 SEP	17 OCT 82	
1982 095C		13587	USSR	22 SEP	13 OCT 92	
1982 098A		13597	USSR	30 SEP	14 OCT 82	
1982 098B	COSMOS 1411	13598	USSR	30 SEP	6 OCT 82	
1982 098C		13613	USSR	30 SEP	23 OCT 82	
1982 098D		13614	USSR	30 SEP	15 OCT 82	
1982 098E		13616	USSR	30 SEP	16 OCT 82	
1982 099A		13645	USSR	2 OCT	4 NOV 82	
1982 099C		13646	USSR	2 OCT	12 NOV 82	
1982 099D		13647	USSR	2 OCT	14 NOV 82	
1982 100B		13604	USSR	12 OCT	14 OCT 92	
1982 100C		13605	USSR	12 OCT	13 OCT 82	
1982 101A	COSMOS 1416	13611	USSR	14 OCT	28 OCT 82	
1982 101B		13612	USSR	14 OCT	23 OCT 82	
1982 101C		13633	USSR	14 OCT	30 OCT 82	
1982 101D		13634	USSR	14 OCT	8 NOV 82	
1982 103B		13625	USSR	20 OCT	22 OCT 82	
1982 103C		13626	USSR	20 OCT	21 OCT 82	
1982 103D		13629	USSR	20 OCT	5 JUL 83	
1982 103F		13644	USSR	20 OCT	21 MAY 83	
1982 104A	COSMOS 1418	13627	USSR	21 OCT	30 SEP 83	
1982 104B		13623	USSR	21 OCT	30 MAR 83	
1982 105B		13632	US	28 OCT	16 DEC 88	
1982 105C		13684	US	28 OCT	9 FEB 84	
1982 105C		13639	US	30 OCT	14 SEP 83	
1982 107A	PROGRESS 16	13633	USSR	31 OCT	14 DEC 82	
1982 107B		13640	USSR	31 OCT	2 NOV 82	
1982 108A	COSMOS 1419	13641	USSR	2 NOV	16 NOV 82	
1982 108B		13642	USSR	2 NOV	6 NOV 82	
1982 108C		13654	USSR	2 NOV	21 NOV 82	
1982 108D		13655	USSR	2 NOV	17 NOV 82	
1982 107E		13556	USSR	2 NOV	17 NOV 82	
1982 108F		13637	USSR	2 NOV	16 NOV 82	
1982 109C		14227	USSR	11 NOV	19 SEP 90	
1982 110A	STS 5	13550	US	11 NOV	16 NOV 82	BT*
1982 111A		13652	US	17 NOV	13 AUG 85	
1982 111B		13660	US	17 NOV	27 DEC 82	
1982 112A	COSMOS 1421	13631	USSR	18 NOV	2 DEC 82	
1982 112B		13662	USSR	18 NOV	22 NOV 82	
1982 112C		13665	USSR	18 NOV	20 NOV 82	
1982 112D		13672	USSR	18 NOV	5 DEC 82	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS		SOURCE	LAUNCH	DECAY	NOTES
		CATALOG NUMBER	NUMBER				
1982 LAUNCHES (CONT.)							
1982 112E		13673		USSR	18 NOV	6 DEC 82	
1982 112F		13674		USSR	19 NOV	14 DEC 82	
1982 113B		13670		USSR	26 NOV	27 NOV 82	
1982 113C		13671		USSR	26 NOV	28 NOV 82	
1982 113D		13675		USSR	26 NOV	15 JUN 84	
1982 113E		13676		USSR	26 NOV	12 OCT 83	
1982 114A	COSMOS 1422	13577		USSR	3 DEC	17 DEC 82	
1982 114B		13578		USSR	3 DEC	7 DEC 82	
1982 114C		13579		USSR	3 DEC	4 DEC 82	
1982 114D		13727		USSR	3 DEC	29 DEC 82	
1982 114E		13728		USSR	3 DEC	20 DEC 82	
1982 114F		13730		USSR	3 DEC	16 DEC 82	
1982 115A	COSMOS 1423	13685		USSR	8 DEC	18 JAN 86	
1982 115B		13686		USSR	8 DEC	27 DEC 82	
1982 115C		13692		USSR	8 DEC	9 DEC 82	
1982 115D		13693		USSR	8 DEC	22 DEC 82	
1982 115F		13697		USSR	8 DEC	19 DEC 82	
1982 115G		13698		USSR	8 DEC	21 DEC 82	
1982 115H		13699		USSR	8 DEC	23 DEC 82	
1982 115J		13701		USSR	8 DEC	12 DEC 82	
1982 115K		13702		USSR	8 DEC	26 DEC 82	
1982 115L		13703		USSR	8 DEC	15 DEC 82	
1982 117A	COSMOS 1424	13725		USSR	16 DEC	28 JAN 83	
1982 117B		13726		USSR	16 DEC	19 DEC 82	
1982 118B		13727		US	21 DEC	1 OCT 91	
1982 118D		13773		US	21 DEC	6 JUN 91	
1982 118E		13774		US	21 DEC	29 OCT 91	
1982 119A	COSMOS 1425	13739		USSR	23 DEC	6 JAN 83	
1982 119B		13740		USSR	23 DEC	6 JAN 83	
1982 119C		13741		USSR	23 DEC	28 DEC 82	
1982 119D		13742		USSR	23 DEC	28 DEC 82	
1982 119E		13754		USSR	23 DEC	27 OCT 83	
1982 119F		13755		USSR	23 DEC	3 MAR 83	
1982 119G		13756		USSR	23 DEC	11 FEB 83	
1982 120A	COSMOS 1426	13745		USSR	28 DEC	5 MAR 83	
1982 120B		13746		USSR	28 DEC	7 JAN 83	
1982 120C		13749		USSR	29 DEC	23 MAR 83	
1982 120D		13752		USSR	26 DEC	7 JAN 83	
1982 120E		13873		USSR	28 DEC	8 MAR 83	
1982 121A	COSMOS 1427	13750		USSR	27 DEC	5 OCT 89	
1982 121B		13751		USSR	29 DEC	26 MAR 88	
1983 LAUNCHES							
1983 005A	COSMOS 1438	13779		USSR	27 JAN	7 FEB 83	
1983 005B		13780		USSR	27 JAN	30 JAN 83	
1983 005C		13787		USSR	27 JAN	12 FEB 83	
1983 005D		13788		USSR	27 JAN	8 FEB 83	
1983 005E		13789		USSR	27 JAN	11 FEB 83	
1983 005F		13790		USSR	27 JAN	13 FEB 83	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 007A	COSMOS 1439	13784	USSR	5 FEB	22 FEB 83	
1983 007B		13785	USSR	6 FEB	10 FEB 83	
1983 007C		13943	USSR	6 FEB	22 FEB 83	
1983 009A	COSMOS 1440	13793	USSR	10 FEB	24 FEB 83	
1983 009B		13794	USSR	10 FEB	15 FEB 83	
1983 009C		13847	USSR	10 FEB	15 FEB 83	
1983 009D		13848	USSR	10 FEB	2 MAR 83	
1983 011A	ASTRO-B	13829	JAPAN	20 FEB	17 DEC 83	
1983 011B		13830	JAPAN	20 FEB	19 JAN 89	
1983 011C		13846	JAPAN	20 FEB	3 MAR 83	
1983 011D		14566	JAPAN	20 FEB	31 AUG 87	
1983 011E		14567	JAPAN	20 FEB	8 OCT 84	
1983 012A	COSMOS 1442	13850	USSR	25 FEB	11 APR 83	
1983 012B		13851	USSR	25 FEB	1 MAR 83	
1983 013A	COSMOS 1443	13868	USSR	2 MAR	19 SEP 83	
1983 013B		13869	USSR	2 MAR	5 MAR 83	
1983 013C		13872	USSR	2 MAR	4 MAR 83	
1983 013D		14305	USSR	2 MAR	12 SEP 83	
1983 014A	COSMOS 1444	13870	USSR	2 MAR	16 MAR 83	
1983 014B		13871	USSR	2 MAR	11 MAR 83	
1983 014C		13891	USSR	2 MAR	16 MAR 83	
1983 014D		13892	USSR	2 MAR	20 APR 83	
1983 014E		13893	USSR	2 MAR	26 MAY 83	
1983 014F		13894	USSR	2 MAR	4 FEB 84	
1983 015B		13876	USSR	11 MAR	27 MAR 83	
1983 015C		13877	USSR	11 MAR	1 APR 83	
1983 015D		13861	USSR	11 MAR	26 MAR 83	
1983 015R		13879	USSR	12 MAR	14 MAR 83	
1983 016C		13880	USSR	12 MAR	13 MAR 83	
1983 015D		13884	USSR	12 MAR	27 OCT 86	
1983 016E		13885	USSR	12 MAR	2 APR 86	
1983 017A	COSMOS 1445	13883	USSR	15 MAR	16 MAR 83	
1983 017B		13888	USSR	15 MAR	17 MAR 83	
1983 017C		13869	USSR	15 MAR	18 MAR 83	
1983 018A	COSMOS 1446	13866	USSR	16 MAR	30 MAR 83	
1983 019B		13887	USSR	16 MAR	29 MAR 83	
1983 019C		13951	USSR	16 MAR	4 APR 83	
1983 019D		13952	USSR	16 MAR	30 MAR 83	
1983 019E		13953	USSR	16 MAR	31 MAR 83	
1983 019C		13895	USSR	16 MAR	4 APR 83	
1983 019E		13896	USSR	16 MAR	31 MAR 83	
1983 020B		13893	USSR	16 MAR	31 MAR 83	
1983 020C		13902	USSR	23 MAR	18 JUN 85	
1983 020C		13903	USSR	23 MAR	5 AUG 85	
1983 022B		13924	US	23 MAR	12 OCT 91	
1983 022C		14477	US	28 MAR	21 MAY 91	
1983 022D		16442	US	28 MAR	9 FEB 86	
1983 022E		16443	US	28 MAR	16 JAN 86	
1983 022F		16444	US	28 MAR	20 JAN 86	
1983 022G		16502	US	28 MAR	21 FEB 88	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 022H		16503	US	28 MAR	19 FEB 89	
1983 022J		16504	US	28 MAR	13 NOV 86	
1983 024A	COSMOS 1449	13955	USSR	31 MAR	15 APR 83	
1983 024B		13956	USSR	31 MAR	9 APR 83	
1983 024C		13962	USSR	31 MAR	1 APR 83	
1983 024D		13963	USSR	31 MAR	10 APR 83	
1983 024E		13993	USSR	31 MAR	23 APR 83	
1983 024F		13994	USSR	31 MAR	18 MAY 83	
1983 024G		13995	USSR	31 MAR	25 MAY 84	
1983 024H		13996	USSR	31 MAR	24 JUN 83	
1983 024J		13997	USSR	31 MAR	22 APR 83	
1983 025B		13965	USSR	2 APR	1 MAY 83	
1983 025C		13966	USSR	2 APR	16 APR 83	
1983 026A	SFS 6	13968	US	4 APR	9 APR 83	
1983 027A	COSMOS 1450	13977	USSR	6 APR	30 MAY 90	
1983 027B		13973	USSR	6 APR	23 MAR 89	
1983 028B		13976	USSR	8 APR	8 APR 83	
1983 028C		13977	USSR	8 APR	10 APR 83	
1983 029D		13979	USSR	8 APR	15 MAY 84	
1983 029E		13980	USSR	8 APR	15 JUN 84	
1983 029A		13975	USSR	8 APR	22 APR 83	
1983 029B	COSMOS 1451	13978	USSR	8 APR	9 APR 83	
1983 029C		14016	USSR	8 APR	20 MAY 83	
1983 029D		14026	USSR	8 APR	25 APR 83	
1983 029E		14027	USSR	8 APR	27 APR 83	
1983 030C		13990	US	11 APR	27 OCT 86	
1983 032A		14001	US	15 APR	21 AUG 83	
1983 033A	ROHINI 3	14002	INDIA	17 APR	19 APR 90	
1983 033B		14003	INDIA	17 APR	18 MAR 89	
1983 033C		14004	INDIA	17 APR	11 MAY 87	
1983 033D		14224	INDIA	17 APR	6 JUN 88	
1983 033E		14225	INDIA	17 APR	4 JAN 89	
1983 033F		14397	INDIA	17 APR	4 FEB 84	
1983 034A	COSMOS 1453	14006	USSR	19 APR	8 MAY 89	
1983 034B		14007	USSR	19 APR	25 MAR 89	
1983 034C		14577	USSR	19 APR	25 MAR 84	
1983 034D		14573	USSR	19 APR	1 APR 84	
1983 034E		14597	USSR	19 APR	8 JUN 84	
1983 034F		14598	USSR	19 APR	1 DEC 84	
1983 034G		14730	USSR	19 APR	21 MAY 84	
1983 034H		14731	USSR	19 APR	10 APR 84	
1983 034J		14853	USSR	19 APR	30 MAY 84	
1983 034K		14854	USSR	19 APR	6 JUN 84	
1983 034N		15007	USSR	19 APR	2 NOV 84	
1983 034P		15008	USSR	19 APR	22 NOV 84	
1983 034Q		15013	USSR	19 APR	12 DEC 84	
1983 034R		15014	USSR	19 APR	3 DEC 84	
1983 034S		15015	USSR	19 APR	22 DEC 84	
1983 034T		15016	USSR	19 APR	14 NOV 84	
1983 034U		15017	USSR	19 APR	6 NOV 84	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 034V		15018	USSR	19 APR	24 OCT 84	
1983 034W		15019	USSR	19 APR	19 OCT 84	
1983 034X		15020	USSR	19 APR	14 OCT 84	
1983 034Y		15376	USSR	19 APR	15 JUL 85	
1983 034Z		15377	USSR	19 APR	22 MAY 85	
1983 035A	SOYUZ T-8	14014	USSR	20 APR	22 APR 83	
1983 035B		14015	USSR	20 APR	22 APR 83	
1983 035C		14029	USSR	20 APR	28 MAY 83	
1983 036A	COSMOS 1454	14017	USSR	22 APR	22 MAY 83	
1983 036B		14028	USSR	22 APR	26 APR 83	
1983 036C		14030	USSR	22 APR	23 APR 83	
1983 038B		14036	USSR	25 APR	31 MAY 83	
1983 033C		14037	USSR	25 APR	7 MAY 83	
1983 039C		14039	USSR	25 APR	17 MAY 83	
1983 039F		14042	USSR	25 APR	6 MAY 83	
1983 039G		14043	USSR	25 APR	29 APR 83	
1983 039A	COSMOS 1457	14039	USSR	26 APR	8 JUN 83	
1983 039B		14040	USSR	26 APR	30 APR 83	
1983 040A	COSMOS 1458	14044	USSR	28 APR	11 MAY 83	
1983 040B		14045	USSR	28 APR	2 MAY 83	
1983 040C		14046	USSR	28 APR	19 MAY 83	
1983 040D		14066	USSR	28 APR	12 MAY 83	
1983 040E		14067	USSR	28 APR	17 MAY 83	
1983 041D		14195	US	28 APR	16 JUN 90	
1983 043A	COSMOS 1460	14058	USSR	6 MAY	20 MAY 83	
1983 043B		14060	USSR	6 MAY	15 MAY 83	
1983 043C		14061	USSR	6 MAY	21 MAY 83	
1983 043D		14062	USSR	6 MAY	6 MAY 83	
1983 043E		14063	USSR	6 MAY	8 MAY 83	
1983 043F		14078	USSR	6 MAY	11 JUL 83	
1983 043G		14079	USSR	6 MAY	9 APR 84	
1983 043H		14080	USSR	6 MAY	8 AUG 83	
1983 043J		14082	USSR	6 MAY	26 MAY 83	
1983 043K		14083	USSR	6 MAY	27 MAY 83	
1983 043L		14247	USSR	6 MAY	17 AUG 83	
1983 045B		14065	USSR	7 MAY	7 MAY 83	
1983 044C		15601	USSR	7 MAY	23 MAR 85	
1983 044D		15602	USSR	7 MAY	15 MAR 85	
1983 044E		15604	USSR	7 MAY	22 APR 85	
1983 044J		20133	USSR	7 MAY	10 JUL	
1983 044AZ		15736	USSR	7 MAY	26 JUN 89	
1983 044CC		17012	USSR	7 MAY	22 JUN 89	
1983 044FN		19608	USSR	7 MAY	16 JAN 90	
1983 044FP		19947	USSR	7 MAY	19 MAY 89	
1983 045A	COSMOS 1462	14071	USSR	17 MAY	31 MAY 83	
1983 045B		14072	USSR	17 MAY	23 MAY 83	
1983 045C		14073	USSR	17 MAY	21 MAY 83	
1983 045D		14074	USSR	17 MAY	9 JUN 83	
1983 045E		14093	USSR	17 MAY	7 JUN 83	
1983 045F		14099	USSR	17 MAY	20 JUN 83	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DELAY	NOTES
1983 LAUNCHES (CONT.)						
1983 046B		14076	USSR	19 MAY	7 NOV 69	
1983 047B		14081	US	19 MAY	13 FEB 88	
1983 049A	COSMOS 1465	14087	USSR	26 MAY	23 JAN 85	
1983 049B		14088	USSR	26 MAY	11 JAN 85	
1983 049C		14091	USSR	26 MAY	15 JAN 83	
1983 049D		14092	USSR	26 MAY	2 JUL 83	
1983 049E		14093	USSR	26 MAY	5 JUL 83	
1983 049F		14094	USSR	26 MAY	9 DEC 83	
1983 049G		14212	USSR	26 MAY	2 NOV 83	
1983 049H		14213	USSR	26 MAY	31 OCT 83	
1983 049J		14214	USSR	26 MAY	29 OCT 83	
1983 049K		14215	USSR	26 MAY	25 OCT 83	
1983 050A	COSMOS 1466	14089	USSR	26 MAY	6 JUL 83	
1983 050B		14090	USSR	26 MAY	30 MAY 83	
1983 050C		14097	USSR	26 MAY	27 MAY 83	
1983 051A		14095	ESA	26 MAY	6 MAY 86	
1983 051C	EXOSAT	14525	US	26 MAY	7 APR 86	
1983 051D		14526	US	26 MAY	6 MAR 89	
1983 051E		14927	US	26 MAY	21 MAR 89	
1983 052A	COSMOS 1467	14100	USSR	31 MAY	12 JUN 83	
1983 052B		14101	USSR	31 MAY	10 JUN 83	
1983 052C		14102	USSR	31 MAY	2 JUN 83	
1983 052D		14103	USSR	31 MAY	2 JUN 83	
1983 052E		14116	USSR	31 MAY	6 JUN 84	
1983 052F		14118	USSR	31 MAY	13 SEP 83	
1983 052G		14119	USSR	31 MAY	19 JUN 83	
1983 052H		14120	USSR	31 MAY	21 JUN 83	
1983 052J		14121	USSR	31 MAY	7 AUG 83	
1983 053B		14105	USSR	2 JUN	3 JUN 83	
1983 053C		14106	USSR	2 JUN	3 JUN 83	
1983 054B		14107	USSR	7 JUN	6 JUN 83	
1983 054C	COSMOS 1468	14109	USSR	7 JUN	8 JUN 83	
1983 055A		14110	USSR	7 JUN	21 JUN 83	
1983 055B		14111	USSR	7 JUN	12 JUN 83	
1983 055C		14140	USSR	7 JUN	15 JUL 83	
1983 055D		14141	USSR	7 JUN	29 JUN 83	
1983 057A	COSMOS 1469	14123	USSR	14 JUN	24 JUN 83	
1983 057B		14124	USSR	14 JUN	23 JUN 83	
1983 057C		14125	USSR	14 JUN	4 OCT 83	
1983 057D		14127	USSR	14 JUN	15 JUN 83	
1983 057E		14149	USSR	14 JUN	27 JUN 83	
1983 057F		14150	USSR	14 JUN	4 JUL 83	
1983 058D		14151	ESA	16 JUN	3 JUL 86	
1983 058E		17302	ESA	16 JUN	10 JUL 90	
1983 059A	STS 7	14132	US	18 JUN	24 JUN 83	3T*
1983 059F	SPAS-01	14142	FRG	18 JUN	24 JUN 83	35*
1983 060A		14137	US	20 JUN	21 MAR 84	
1983 060B		14138	US	20 JUN	22 JUN 83	
1983 062A	SOYUZ T-9	14152	USSR	27 JUN	23 NOV 83	
1983 062B		14153	USSR	27 JUN	29 JUN 83	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECEASED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)							
1983 062C		14519		USSR	27 JUN	17 MAR 84	
1983 064A	COSMOS 1471	14156		USSR	28 JUN	28 JUL 83	
1983 064B		14157		USSR	28 JUN	3 JUL 83	
1983 064C		14232		USSR	28 JUN	28 JUL 83	
1983 064D		14233		USSR	28 JUN	28 JUL 83	
1983 065B		14159		US	28 JUN	11 AUG 83	
1983 066B		14161		USSR	30 JUN	3 JUL 83	
1983 066C		14162		USSR	30 JUN	1 JUL 83	
1983 066D		14166		USSR	30 JUN	22 FEB 84	
1983 067B		14164		USSR	1 JUL	5 AUG 83	
1983 067C		14165		USSR	1 JUL	25 JUL 83	
1983 068A	COSMOS 1472	14169		USSR	5 JUL	19 JUL 83	
1983 068B		14170		USSR	5 JUL	7 JUL 83	
1983 068C		14197		USSR	5 JUL	11 DEC 83	
1983 068D		14198		USSR	5 JUL	3 SEP 83	
1983 068E		14202		USSR	5 JUL	16 AUG 83	
1983 068F		14203		USSR	5 JUL	28 AUG 83	
1983 070B		14183		USSR	8 JUL	21 AUG 83	
1983 070C		14184		USSR	8 JUL	24 JUL 83	
1983 071A	COSMOS 1482	14185		USSR	13 JUL	27 JUL 83	
1983 071B		14186		USSR	13 JUL	25 JUL 83	
1983 071C		14187		USSR	13 JUL	15 JUL 83	
1983 071D		14188		USSR	13 JUL	9 DEC 83	
1983 071E		14217		USSR	13 JUL	20 SEP 83	
1983 071F		14218		USSR	13 JUL	14 OCT 83	
1983 071G		14219		USSR	13 JUL	20 OCT 83	
1983 071H		14230		USSR	13 JUL	25 JUN 84	
1983 071J		14231		USSR	13 JUL	31 JUL 83	
1983 073B		14200		USSR	19 JUL	20 AUG 83	
1983 073C		14201		USSR	19 JUL	11 AUG 83	
1983 073D	COSMOS 1483	14205		USSR	19 JUL	3 FEB 90	
1983 074A		14204		USSR	20 JUL	3 AUG 83	
1983 074B		14205		USSR	20 JUL	26 JUL 83	
1983 074C		14239		USSR	20 JUL	11 AUG 83	
1983 074D		14242		USSR	20 JUL	11 AUG 83	
1983 074E		14243		USSR	20 JUL	26 AUG 83	
1983 075A	COSMOS 1485	14210		USSR	26 JUL	9 AUG 83	
1983 076B		14211		USSR	26 JUL	5 AUG 83	
1983 076C		14216		USSR	26 JUL	14 SEP 83	
1983 076D		14253		USSR	26 JUL	29 SEP 83	
1983 076E		14254		USSR	26 JUL	30 OCT 83	
1983 076F		14255		USSR	26 JUL	14 AUG 84	
1983 077B		14235		US	28 JUL	28 SEP 83	
1983 080A	COSMOS 1487	14245		USSR	5 AUG	19 AUG 83	
1983 080B		14246		USSR	5 AUG	11 AUG 83	
1983 080C		14249		USSR	5 AUG	14 AUG 83	
1983 080D		14291		USSR	5 AUG	26 AUG 83	
1983 080E		14292		USSR	5 AUG	11 SEP 83	
1983 080F		14295		USSR	5 AUG	28 AUG 83	
1983 081B		14250		JAPAN	5 AUG	27 SEP 83	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 081C		14287	JAPAN	5 AUG	25 MAY 91	
1983 082A	COSMOS 1488	14251	USSR	9 AUG	23 AUG 83	
1983 082B		14252	USSR	9 AUG	18 AUG 93	
1983 082C		14298	USSR	9 AUG	13 NOV 83	
1983 082D		14302	USSR	9 AUG	5 SEP 84	
1983 082E		14303	USSR	9 AUG	28 AUG 83	
1983 082F		14347	USSR	9 AUG	13 NOV 83	
1983 083A	COSMOS 1489	14256	USSR	10 AUG	23 SEP 83	
1983 083B		14257	USSR	10 AUG	14 AUG 83	
1983 083C		14263	USSR	10 AUG	11 AUG 83	
1983 083D		14371	USSR	10 AUG	24 SEP 83	
1983 084D		14261	USSR	10 AUG	11 AUG 83	
1983 084E		14262	USSR	10 AUG	12 AUG 83	
1983 085A	PROGRESS 17	14283	USSR	17 AUG	18 SEP 83	
1983 085B		14284	USSR	17 AUG	20 AUG 83	
1983 086A	PRC 13	14288	PRC	19 AUG	3 SEP 83	
1983 086B		14289	PRC	19 AUG	30 AUG 83	
1983 086C		14290	PRC	19 AUG	20 AUG 83	
1983 086D		14293	PRC	19 AUG	20 AUG 83	
1983 086E		14294	PRC	19 AUG	21 AUG 83	
1983 086F		14295	PRC	19 AUG	20 AUG 83	
1983 087A	COSMOS 1493	14299	USSR	23 AUG	6 SEP 83	
1983 087B		14300	USSR	23 AUG	31 AUG 83	
1983 087C		14304	USSR	23 AUG	30 AUG 83	
1983 087D		14322	USSR	23 AUG	18 SEP 83	
1983 087E		14323	USSR	23 AUG	6 DEC 83	
1983 087F		14324	USSR	23 AUG	10 OCT 84	
1983 037G		14325	USSR	23 AUG	29 OCT 83	
1983 089B		14308	USSR	25 AUG	28 AUG 83	
1983 089C		14309	USSR	25 AUG	26 AUG 83	
1983 089D		14310	USSR	25 AUG	6 JUL 84	
1983 088E		14311	USSR	25 AUG	27 OCT 86	
1983 089A	STS 3	14312	US	30 AUG	5 SEP 83	BT*
1983 090B		14314	USSR	30 AUG	12 SEP 83	
1983 090C		14315	USSR	30 AUG	19 SEP 83	
1983 091A	COSMOS 1494	14316	USSR	31 AUG	26 SEP 85	
1983 091B		14317	USSR	31 AUG	24 MAY 85	
1983 092A	COSMOS 1495	14320	USSR	3 SEP	16 SEP 83	
1983 092B		14321	USSR	3 SEP	6 SEP 83	
1983 092C		14337	USSR	3 SEP	19 SEP 83	
1983 092D		14338	USSR	3 SEP	22 SEP 83	
1983 093A	COSMOS 1496	14326	USSR	7 SEP	19 OCT 83	
1983 093B		14327	USSR	7 SEP	11 SEP 83	
1983 094C		14332	US	8 SEP	21 MAY 84	
1983 095A	COSMOS 1497	14330	USSR	9 SEP	23 SEP 83	
1983 095B		14331	USSR	9 SEP	19 SEP 83	
1983 095C		14367	USSR	9 SEP	14 DEC 83	
1983 095D		14368	USSR	9 SEP	8 OCT 84	
1983 095E		14370	USSR	9 SEP	14 NOV 83	
1983 095F		14567	USSR	9 SEP	27 DEC 83	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 096A	COSMOS 1498	14334	USSR	14 SEP	29 SEP 83	
1983 096B		14335	USSR	14 SEP	19 SEP 83	
1983 096C		14336	USSR	14 SEP	19 SEP 83	
1983 096D		14374	USSR	14 SEP	17 OCT 83	
1983 096E		14375	USSR	14 SEP	4 OCT 83	
1983 096F		14376	USSR	14 SEP	5 OCT 83	
1983 097A	COSMOS 1499	14339	USSR	17 SEP	1 OCT 83	
1983 097B		14340	USSR	17 SEP	26 SEP 83	
1983 097C		14341	USSR	17 SEP	19 SEP 83	
1983 097D		14382	USSR	17 SEP	20 DEC 83	
1983 097E		14383	USSR	17 SEP	9 OCT 83	
1983 097F		14384	USSR	17 SEP	4 NOV 84	
1983 097G		14385	USSR	17 SEP	20 NOV 83	
1983 097H		14391	USSR	17 SEP	4 JAN 84	
1983 098		14366	US	22 SEP	30 OCT 83	
1983 098C		14369	US	22 SEP	31 DEC 86	
1983 100B		14378	USSR	30 SEP	2 OCT 83	
1983 100C		14379	USSR	30 SEP	30 SEP 83	
1983 100D		14389	USSR	30 SEP	16 JUN 84	
1983 100E		14390	USSR	30 SEP	27 APR 84	
1983 101A	COSMOS 1501	14380	USSR	30 SEP	26 MAY 89	
1983 101B		14381	USSR	30 SEP	30 MAR 89	
1983 101C		14732	USSR	30 SEP	27 APR 84	
1983 101D		14733	USSR	30 SEP	28 APR 84	
1983 101E		14947	USSR	30 SEP	5 SEP 84	
1983 101F		14963	USSR	30 SEP	9 SEP 84	
1983 101G		15108	USSR	30 SEP	1 MAR 85	
1983 101H		15110	USSR	30 SEP	4 FEB 85	
1983 101J		15203	USSR	30 SEP	29 JUL 86	
1983 101K		15204	USSR	30 SEP	4 SEP 86	
1983 101L		15277	USSR	30 SEP	13 OCT 86	
1983 101M		15278	USSR	30 SEP	26 SEP 86	
1983 101N		15374	USSR	30 SEP	11 JUL 85	
1983 101P		15375	USSR	30 SEP	5 JUL 85	
1983 101Q		15425	USSR	30 SEP	1 FEB 87	
1983 101R		15425	USSR	30 SEP	7 JAN 87	
1983 101X		15594	USSR	30 SEP	2 NOV 85	
1983 102A	COSMOS 1502	14395	USSR	5 OCT	29 AUG 85	
1983 102B		14396	USSR	5 OCT	1 JUN 84	
1983 104A	COSMOS 1504	14403	USSR	14 OCT	6 DEC 83	
1983 104B		14404	USSR	14 OCT	17 OCT 83	
1983 105B	PROGRESS 19	14423	ESA	19 OCT	4 MAY 87	
1983 106A		14422	USSR	20 OCT	16 NOV 83	
1983 106B		14424	USSR	20 OCT	22 OCT 83	
1983 106C		14489	USSR	20 OCT	20 NOV 83	
1983 106D		14489	USSR	20 OCT	22 NOV 83	
1983 107A	COSMOS 1505	14425	USSR	21 OCT	4 NOV 83	
1983 107B		14425	USSR	21 OCT	30 OCT 83	
1983 107C		14481	USSR	21 OCT	9 DEC 84	
1983 107D		14492	USSR	21 OCT	3 JAN 84	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 107E		14560	USSR	21 OCT	1 FEB 84	
1983 107F		14561	USSR	21 OCT	26 FEB 84	
1983 107G		14674	USSR	21 OCT	1 FEB 84	
1983 110A	COSMOS 1507	14455	USSR	29 OCT	19 AUG 87	
1983 110B		14456	USSR	29 OCT	29 OCT 83	
1983 112A	COSMOS 1509	14490	USSR	17 NOV	1 DEC 83	
1983 112B		14498	USSR	17 NOV	22 NOV 83	
1983 112C		14535	USSR	17 NOV	27 DEC 83	
1983 112D		14536	USSR	17 NOV	5 DEC 83	
1983 112E		14539	USSR	17 NOV	3 DEC 83	
1983 112F		14540	USSR	17 NOV	7 DEC 83	
1983 112G		14541	USSR	17 NOV	2 DEC 83	
1983 113B		14553	US	18 NOV	2 SEP 91	
1983 113C		14554	US	18 NOV	2 OCT 91	
1983 114B		14517	USSR	23 NOV	15 DEC 83	
1983 114C		14518	USSR	23 NOV	10 DEC 83	
1983 116A		14523	US	28 NOV	8 DEC 83	
1983 117A	STS 9	14530	USSR	30 NOV	13 JAN 84	
1983 117B	COSMOS 1511	14531	USSR	30 NOV	5 DEC 83	
1983 118B		14533	USSR	30 NOV	2 DEC 83	
1983 118C		14534	USSR	30 NOV	1 DEC 83	
1983 119D		14537	USSR	30 NOV	10 MAY 86	
1983 118E		14538	USSR	30 NOV	23 SEP 88	
1983 119A		14542	USSR	7 DEC	21 DEC 83	
1983 119B	COSMOS 1512	14543	USSR	7 DEC	17 DEC 83	
1983 119C		14544	USSR	7 DEC	9 DEC 83	
1983 119D		14545	USSR	7 DEC	9 DEC 83	
1983 119E		14573	USSR	7 DEC	16 FEB 84	
1983 119F		14574	USSR	7 DEC	30 DEC 83	
1983 119G		14575	USSR	7 DEC	28 APR 85	
1983 119H		14576	USSR	7 DEC	20 MAR 84	
1983 119J		14579	USSR	7 DEC	9 JUL 84	
1983 119K		14580	USSR	7 DEC	28 DEC 83	
1983 119L		14581	USSR	7 DEC	26 JUN 84	
1983 119M		14673	USSR	7 DEC	30 MAR 84	
1983 121A	COSMOS 1514	14547	USSR	14 DEC	19 DEC 83	
1983 121B		14550	USSR	14 DEC	19 DEC 83	
1983 123B		14571	USSR	21 DEC	14 FEB 84	
1983 123C		14572	USSR	21 DEC	4 FEB 84	
1983 124A	COSMOS 1516	14583	USSR	27 DEC	9 FEB 84	
1983 124B		14584	USSR	27 DEC	31 DEC 83	
1983 125A	COSMOS 1517	14585	USSR	27 DEC	27 DEC 83	
1983 125B		14586	USSR	27 DEC	29 DEC 83	
1983 126B		14588	USSR	28 DEC	8 FEB 84	
1983 126C		14589	USSR	28 DEC	4 FEB 84	
1983 127D		14593	USSR	29 DEC	31 DEC 83	
1983 127E		14594	USSR	29 DEC	29 DEC 83	
1984 LAUNCHES						

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INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 002A	COSMOS 1530	14622	USSR	11 JAN	25 JAN 84	
1984 002B		14623	USSR	11 JAN	25 JAN 84	
1984 002C		14661	USSR	11 JAN	4 FEB 84	
1984 002D		14662	USSR	11 JAN	11 APR 84	
1984 002E		14663	USSR	11 JAN	16 MAR 84	
1984 002F		14664	USSR	11 JAN	26 MAR 84	
1984 002G		14927	USSR	11 JAN	21 JUN 85	
1984 004A	COSMOS 1532	14634	USSR	13 JAN	26 FEB 84	
1984 0043		14635	USSR	13 JAN	18 JAN 84	
1984 005B		14660	JAPAN	23 JAN	21 NOV 84	
1984 005C		14665	JAPAN	23 JAN	29 MAY 87	
1984 006A	COSMOS 1533	14666	USSR	26 JAN	9 FEB 84	
1984 006B		14667	USSR	26 JAN	13 FEB 84	
1984 006C		14712	USSR	26 JAN	5 MAY 84	
1984 006D		14713	USSR	26 JAN	11 APR 84	
1984 006E		14714	USSR	26 JAN	11 APR 84	
1984 006F		14762	USSR	26 JAN	14 APR 84	
1984 007A	COSMOS 1534	14668	USSR	26 JAN	20 SEP 90	
1984 007B		14669	USSR	26 JAN	30 JUN 89	
1984 008B		14671	PRC	29 JAN	8 FEB 84	
1984 008C		14672	PRC	29 JAN	30 JAN 84	
1984 008D		14678	PRC	29 JAN	15 FEB 84	
1984 009E		14676	US	31 JAN	27 FEB 84	
1984 011A	STS 41B	14681	US	3 FEB	11 FEB 84	BT*
1984 011B	WESTAR 6	14588	US	3 FEB	16 NOV 84	CA*
1984 011C	IRT	14689	US	5 FEB	11 FEB 84	35*
1984 011D	PALAPA 82	14692	INDONESIA	6 FEB	16 NOV 84	CS*
1984 011G		14695	US	5 FEB	9 FEB 84	
1984 011H		14696	US	5 FEB	12 FEB 84	
1984 011J		14698	US	3 FEB	9 FEB 84	
1984 011K		14765	US	3 FEB	28 FEB 84	
1984 011L		14766	US	3 FEB	28 FEB 84	
1984 011M		14767	US	3 FEB	28 FEB 84	
1984 011N		14768	US	3 FEB	28 FEB 84	
1984 011P		14769	US	3 FEB	28 FEB 84	
1984 011Q		14770	US	3 FEB	28 FEB 84	
1984 011R		14771	US	3 FEB	28 FEB 84	
1984 011S		14772	US	3 FEB	28 FEB 84	
1984 011T		14773	US	3 FEB	28 FEB 84	
1984 011U		14824	US	6 FEB	3 FEB 90	
1984 011V		14970	US	3 FEB	16 JUL 87	
1984 011W		15556	US	3 FEB	24 APR 85	
1984 011X		15557	US	3 FEB	26 JUN 85	
1984 012E		14761	US	5 FEB	18 OCT 84	
1984 012G		14964	US	5 FEB	18 OCT 84	
1984 012H		14969	US	5 FEB	18 OCT 84	
1984 012M		19441	US	5 FEB	25 AUG 84	
1984 012M		14701	USSR	8 FEB	11 APR 84	
1984 014A	SOYUZ T-10	14702	USSR	8 FEB	10 FEB 84	
1984 014B		14916	USSR	8 FEB	26 MAY 84	
1984 014C						

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 030F		14891	USSR	21 MAR 84	29 MAY 84	
1984 030G		14892	USSR	21 MAR 84	11 APR 84	
1984 030H		14893	USSR	21 MAR 84	8 APR 84	
1984 030J		14895	USSR	21 MAR 84	10 MAY 84	
1984 030K		14896	USSR	21 MAR 84	25 APR 84	
1984 031A		14898	USSR	29 MAR 84	31 MAR 84	
1984 031B		14899	USSR	29 MAR 84	29 MAR 84	
1984 031C		14899	USSR	29 MAR 84	27 OCT 85	
1984 031E		14899	USSR	3 APR 84	2 OCT 84	
1984 032A	SOVUZ T-11	14872	USSR	3 APR 84	5 APR 84	
1984 032B		14873	USSR	3 APR 84	12 DEC 86	
1984 032C		15345	USSR	3 APR 84	5 DEC 84	
1984 032D		15346	USSR	4 APR 84	14 MAY 84	
1984 033B		14885	USSR	4 APR 84	1 MAY 84	
1984 033C		14885	USSR	4 APR 84	1 MAY 84	
1984 034A	STS 41C	14897	US	6 APR 84	13 APR 84	31*
1984 034B	LOF	14897	US	6 APR 84	20 JAN 90	35*
1983 034L		14936	USSR	19 APR 84	5 SEP 84	
1983 034M		14937	USSR	19 APR 84	19 AUG 84	
1984 036A	COSMOS 1548	14902	USSR	10 APR 84	25 MAY 84	
1984 036B		14903	USSR	10 APR 84	13 APR 84	
1984 036C		14901	USSR	10 APR 84	25 MAY 84	
1984 036D		14932	USSR	15 APR 84	7 MAY 84	
1984 038A	PROGRESS 20	14933	USSR	15 APR 84	17 APR 84	
1984 038B		14935	US	17 APR 84	13 AUG 84	
1984 039A		14939	USSR	22 APR 84	3 MAY 84	
1984 040A	COSMOS 1549	14939	USSR	22 APR 84	28 APR 84	
1984 040B		14939	USSR	22 APR 84	29 AUG 84	
1984 040C		14937	USSR	22 APR 84	14 MAY 86	
1984 042E		14953	USSR	22 APR 84	23 JUN 84	
1984 042F		14954	USSR	22 APR 84	7 MAY 84	
1984 042G		14955	USSR	22 APR 84	13 OCT 84	
1984 043G		14956	USSR	22 APR 84	24 APR 84	
1984 041B		14941	USSR	22 APR 84	22 APR 84	
1984 041C		14942	USSR	22 APR 84	9 DEC 90	
1984 041F		14944	USSR	22 APR 84	27 OCT 85	
1984 041G	PROGRESS 21	14945	USSR	22 APR 84	26 MAY 84	
1984 042A		14951	USSR	7 MAY 84	10 MAY 84	
1984 042B		14952	USSR	7 MAY 84	23 MAY 84	
1984 044A	COSMOS 1551	14967	USSR	11 MAY 84	17 MAY 84	
1984 044B		14969	USSR	11 MAY 84	24 MAY 84	
1984 044C		14986	USSR	11 MAY 84	25 MAY 84	
1984 044D		14937	USSR	11 MAY 84	31 MAY 84	
1984 044E		14938	USSR	11 MAY 84	27 MAY 84	
1984 044F		14939	USSR	11 MAY 84	3 NOV 84	
1984 045A	COSMOS 1552	14971	USSR	14 MAY 84	19 MAY 84	
1984 045B		14972	USSR	14 MAY 84	4 NOV 84	
1984 045C		15379	USSR	14 MAY 84	5 NOV 84	
1984 045D		15380	USSR	14 MAY 84	5 NOV 84	
1984 045E		15351	USSR	14 MAY 84	21 MAY 84	
1984 047C		14989	USSR	19 MAY 84		

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 047E		14981	USSR	19 MAY	20 MAY 84	
1984 048A	COSMOS 1557	14982	USSR	22 MAY	4 JUN 84	
1984 048B		14983	USSR	22 MAY	26 MAY 84	
1984 048C		15023	USSR	22 MAY	11 JUN 84	
1984 048D		15024	USSR	22 MAY	6 JUN 84	
1984 048E		15025	USSR	22 MAY	6 JUN 84	
1984 048F		15026	USSR	22 MAY	6 JUN 84	
1984 049B		14989	USA	22 MAY	5 JUN 84	
1984 050A	COSMOS 1558	14993	USSR	23 MAY	17 MAR 85	
1984 050B		14994	USSR	23 MAY	8 JUL 84	
1984 051A	PROGRESS 22	14995	USSR	25 MAY	23 MAY 84	
1984 051B		14997	USSR	28 MAY	15 JUL 84	
1984 053A	COSMOS 1567	15009	USSR	28 MAY	30 MAY 84	
1984 053B		15010	USSR	30 MAY	3 APR 83	
1984 054A	COSMOS 1568	15011	USSR	30 MAY	31 MAY 84	
1984 054B		15012	USSR	1 JUN	14 JUN 84	
1984 054C		15021	USSR	1 JUN	11 JUN 84	
1984 054D		15022	USSR	1 JUN	6 JUN 84	
1984 054E		15041	USSR	1 JUN	6 JUN 84	
1984 054F		15042	USSR	1 JUN	9 AUG 84	
1984 054G		15043	USSR	1 JUN	1 NOV 84	
1984 054H		15044	USSR	1 JUN	22 AUG 86	
1984 054J		15045	USSR	1 JUN	16 JUN 84	
1984 054K		15048	USSR	1 JUN	20 JUN 84	
1984 054L		15049	USSR	1 JUN	4 DEC 84	
1984 054M		15050	USSR	1 JUN	10 SEP 84	
1984 054N		15062	USSR	1 JUN	13 JUL 84	
1984 0553		15028	USSR	6 JUN	22 AUG 84	
1984 055C		15029	USSR	6 JUN	26 JUL 84	
1984 057A	INTELSAT V F9	15034	US	7 JUN	10 JUL 84	
1984 0573		15035	US	9 JUN	24 OCT 84	
1984 058A	COSMOS 1571	15036	USSR	11 JUN	11 JUN 84	
1984 058B		15037	USSR	11 JUN	26 JUN 84	
1984 058C		15038	USSR	11 JUN	24 JUN 84	
1984 058D		15065	USSR	11 JUN	16 JUN 84	
1984 058E		15066	USSR	11 JUN	20 OCT 84	
1984 053F		15067	USSR	11 JUN	25 NOV 84	
1984 053G		15068	USSR	11 JUN	17 APR 85	
1984 054H		15069	USSR	11 JUN	1 JUL 84	
1984 058J		15072	USSR	11 JUN	22 SEP 84	
1984 060A	COSMOS 1572	15046	USSR	15 JUN	8 SEP 84	
1984 060B		15047	USSR	15 JUN	29 JUN 84	
1984 060C		15087	USSR	15 JUN	22 JUN 84	
1984 060D		15088	USSR	15 JUN	30 JUL 84	
1984 060E		15089	USSR	15 JUN	9 JUL 84	
1984 061A	COSMOS 1573	15051	USSR	15 JUN	13 JUL 84	
1984 061B		15052	USSR	19 JUN	24 JUN 84	
1984 061C		15079	USSR	19 JUN	24 JUN 84	
1984 061D		15082	USSR	19 JUN	1 JUL 84	
1984 061E		15083	USSR	19 JUN	15 JUL 84	
				19 JUN	30 JUN 84	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 061F		15084	USSR	19 JUN	30 JUN 84	
1984 061G		15086	USSR	19 JUN	5 JUL 84	
1984 0633		15058	USSR	22 JUN	24 JUN 84	
1984 063C		15059	USSR	22 JUN	22 JUN 84	
1984 063D		15075	USSR	22 JUN	27 OCT 85	
1984 064A		15060	USSR	22 JUN	7 JUL 84	
1984 064B	COSMOS 1575	15061	USSR	22 JUN	28 JUN 84	
1984 064C		15101	USSR	22 JUN	10 PUG 84	
1984 064D		15102	USSR	22 JUN	19 JUL 84	
1984 064E		15103	USSR	22 JUN	12 JUL 84	
1984 064F		15104	USSR	22 JUN	20 JUL 84	
1984 065A		15063	US	25 JUN	18 OCT 84	
1984 065B		15064	US	25 JUN	27 JUN 84	
1984 066A		15070	USSR	26 JUN	24 AUG 84	
1984 066B	COSMOS 1576	15073	USSR	26 JUN	29 JUN 84	
1984 066C		15074	USSR	26 JUN	1 JUL 84	
1984 066D		15222	USSR	26 JUN	25 AUG 84	
1984 068B		15081	USSR	26 JUN	3 APR 90	
1984 069C		15328	USSR	29 JUN	5 NOV 84	
1984 070A		15090	USSR	30 JUN	13 JUL 84	
1984 070B	COSMOS 1580	15091	USSR	30 JUN	25 JUL 84	
1984 070C		15092	USSR	30 JUN	6 JUL 84	
1984 070D		15093	USSR	30 JUN	5 JUL 84	
1984 070E		15094	USSR	30 JUN	6 JUL 84	
1984 070F		15115	USSR	30 JUN	15 JUL 84	
1984 070G		15116	USSR	30 JUN	1 AUG 84	
1984 070H		15117	USSR	30 JUN	16 JUL 84	
1984 070J		15118	USSR	30 JUN	18 JUL 84	
1984 071B		15096	USSR	3 JUL	31 AUG 84	
1984 071C		15097	USSR	3 JUL	10 AUG 84	
1984 073A	SOYUZ T-12	15119	USSR	17 JUL	29 JUL 84	
1984 073B		15120	USSR	17 JUL	20 JUL 84	
1984 073C		15136	USSR	17 JUL	28 AUG 85	
1984 073D		15140	USSR	17 JUL	2 AUG 84	
1984 074A	COSMOS 1582	15121	USSR	19 JUL	2 AUG 84	
1984 074B		15122	USSR	19 JUL	27 JUL 84	
1984 074C		15150	USSR	19 JUL	9 SEP 84	
1984 074D		15151	USSR	19 JUL	14 AUG 84	
1984 074E		15154	USSR	19 JUL	15 AUG 84	
1984 074F		15155	USSR	19 JUL	18 AUG 84	
1984 075A	COSMOS 1583	15123	USSR	24 JUL	8 AUG 84	
1984 075B		15124	USSR	24 JUL	7 AUG 84	
1984 075C		15125	USSR	24 JUL	1 AUG 84	
1984 075D		15126	USSR	24 JUL	27 JUL 84	
1984 075E		15169	USSR	24 JUL	1 FEB 85	
1984 075F		15170	USSR	24 JUL	19 DEC 84	
1984 075G		15173	USSR	24 JUL	30 NOV 86	
1984 075H		15178	USSR	24 JUL	26 OCT 84	
1984 075J		15179	USSR	24 JUL	25 OCT 84	
1984 075K		15180	USSR	24 JUL	7 SEP 84	

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	DECEASED OBJECTS	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)							
1984 076A	COSMOS 1584	15131		USSR	27 JUL	10 AUG 84	
1984 076B		15132		USSR	27 JUL	29 JUL 84	
1984 076C		15185		USSR	27 JUL	25 AUG 84	
1984 076D		15186		USSR	27 JUL	13 AUG 84	
1984 076E		15187		USSR	27 JUL	11 AUG 84	
1984 076F		15191		USSR	27 JUL	14 AUG 84	
1984 077A		15142		USSR	31 JUL	28 SEP 84	
1984 077E	COSMOS 1585	15143		USSR	31 JUL	3 AUG 84	
1984 078B		15145		USSR	1 AUG	3 AUG 84	
1984 073C		15146		USSR	1 AUG	2 AUG 84	
1984 073D		15160		USSR	1 AUG	12 AUG 87	
1984 078E		15161		USSR	1 AUG	27 OCT 85	
1984 079B		15148		USSR	2 AUG	19 SEP 84	
1984 079C		15149		USSR	2 AUG	7 SEP 84	
1984 080B		15153		USSR	2 AUG	11 OCT 84	
1984 080D		15162		JAPAN	2 AUG	12 AUG 84	
1984 081C		15165		JAPAN	4 AUG	6 APR 90	
1984 082A	COSMOS 1587	15163		ESA	6 AUG	31 AUG 84	
1984 082B		15164		USSR	6 AUG	18 AUG 84	
1984 082C		15238		USSR	6 AUG	10 NOV 84	
1984 082D		15239		USSR	6 AUG	15 SEP 84	
1984 082E		15240		USSR	6 AUG	27 DEC 84	
1984 082F		15241		USSR	6 AUG	26 JAN 85	
1984 082G		15242		USSR	6 AUG	26 NOV 86	
1984 082H		15243		USSR	6 AUG	6 MAR 85	
1984 083A	COSMOS 1588	15167		USSR	7 AUG	17 FEB 88	
1984 083B		15168		USSR	7 AUG	8 AUG 84	
1984 083F		16628		USSR	7 AUG	8 MAR 86	
1984 083AA		16664		USSR	7 AUG	11 APR 86	
1984 083AB		16665		USSR	7 AUG	20 APR 86	
1984 083AC		16665		USSR	7 AUG	11 APR 86	
1984 083AF		16674		USSR	7 AUG	20 APR 86	
1984 085B		15183		USSR	10 AUG	11 SEP 84	
1984 085C		15184		USSR	10 AUG	5 SEP 84	
1984 086A	PROGRESS 23	15193		USSR	14 AUG	28 AUG 84	
1984 086B		15194		USSR	14 AUG	17 AUG 84	
1984 087A	COSMOS 1590	15197		USSR	16 AUG	30 AUG 84	
1984 087B		15198		USSR	16 AUG	23 AUG 84	
1984 087C		15228		USSR	16 AUG	12 SEP 84	
1984 087D		15229		USSR	16 AUG	9 SEP 84	
1984 087E		15230		USSR	16 AUG	5 SEP 84	
1984 087F		15231		USSR	16 AUG	2 OCT 84	
1984 089B		15215		USSR	16 AUG	17 SEP 84	
1984 089C		15216		USSR	24 AUG	13 SEP 84	
1984 0903		15220		USSR	24 AUG	27 AUG 84	
1984 090C		15221		USSR	24 AUG	25 AUG 84	
1984 090D		15224		USSR	24 AUG	18 APR 85	
1984 090E		15225		USSR	24 AUG	27 OCT 86	
1984 092A	COSMOS 1591	15232		USSR	30 AUG	13 SEP 84	
1984 092B		15233		USSR	30 AUG	5 SEP 84	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 0920		15289	USSR	30 AUG	15 SEP 84	
1984 0920		15290	USSR	30 AUG	14 OCT 84	
1984 092E		15291	USSR	30 AUG	23 SEP 84	
1984 092F		15294	USSR	30 AUG	28 SEP 84	
1984 092G		15295	USSR	30 AUG	29 SEP 84	
1984 092H		15296	USSR	30 AUG	15 SEP 84	
1984 093A		15234	US	30 AUG	5 SEP 84	BT*
1984 094A	STS 41D	15257	USSR	4 SEP	18 SEP 84	
1984 094A	COSMOS 1592	15258	USSR	4 SEP	15 SEP 84	
1984 094B		15298	USSR	4 SEP	26 SEP 84	
1984 094C		15299	USSR	4 SEP	24 OCT 84	
1984 094D		15300	USSR	4 SEP	2 OCT 84	
1984 094E		15301	USSR	4 SEP	23 SEP 84	
1984 094F		15302	USSR	4 SEP	23 SEP 84	
1984 094G		15262	USSR	4 SEP	6 SEP 84	
1984 095D		15263	USSR	4 SEP	5 SEP 84	
1984 095E		15268	USSR	7 SEP	25 OCT 84	
1984 096B		15269	USSR	7 SEP	9 OCT 84	
1984 096C		15279	PRC	12 SEP	29 SEP 84	
1984 098A	PRC 16	15280	PRC	12 SEP	25 SEP 84	
1984 098B		15285	PRC	12 SEP	13 SEP 84	
1984 098C		15286	PRC	12 SEP	13 SEP 84	
1984 098D		15287	USSR	13 SEP	26 SEP 84	
1984 099A	COSMOS 1597	15288	USSR	13 SEP	19 SEP 84	
1984 099B		15320	USSR	13 SEP	4 OCT 84	
1984 099C		15321	USSR	13 SEP	27 SEP 84	
1984 099D		15309	US	21 SEP	19 NOV 84	
1984 1013		15310	US	21 SEP	12 JUN 85	
1984 101C		15319	USSR	25 SEP	20 NOV 84	
1984 102A	COSMOS 1599	15324	USSR	25 SEP	27 SEP 84	
1984 102B		15325	USSR	27 SEP	11 OCT 84	
1984 103A	COSMOS 1600	15356	USSR	27 SEP	14 OCT 84	
1984 1033		15357	USSR	27 SEP	29 OCT 86	
1984 103C		15358	USSR	27 SEP	23 MAR 85	
1984 103C		15361	USSR	27 SEP	1 MAY 85	
1984 103F		15364	USSR	27 SEP	17 DEC 84	
1984 103G		15373	USSR	27 SEP	8 JAN 85	
1984 103H		15326	USSR	27 SEP	26 OCT 84	
1984 104A	COSMOS 1601	16255	USSR	27 SEP	29 NOV 87	
1984 1044E		15334	USSR	27 SEP	18 JUN 83	
1984 1050		15335	USSR	28 SEP	6 JUL 85	
1984 1050		15336	USSR	28 SEP	1 OCT 84	
1984 105F		15337	USSR	28 SEP	29 SEP 84	
1984 107C		15351	USSR	4 OCT	2 DEC 84	
1984 107C		15352	USSR	4 OCT	7 NOV 84	
1984 108H	STS 41G	15353	US	5 OCT	13 OCT 84	BT*
1984 1101		15363	US	12 OCT	26 JUL 83	
1984 110C		15371	US	12 OCT	20 SEP 87	
1984 110D		15372	US	12 OCT	4 JUL 87	
1984 1120		15502	USSR	31 OCT	28 MAR 85	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 112D		15504	USSR	31 OCT	1 OCT 85	
1984 112E		15507	USSR	31 OCT	7 FEB 85	
1984 112F		15508	USSR	31 OCT	3 JUL 85	
1984 112G		15511	USSR	31 OCT	5 MAR 85	
1984 113A	STS 51A	15382	US	8 NOV	16 NOV 84	8T*
1984 113F		18904	US	10 NOV	2 FEB 89	
1984 114D		15389	ESA	10 NOV	27 OCT 95	
1984 116A	COSMOS 1608	15393	USSR	14 NOV	17 DEC 84	
1984 116B		15394	USSR	14 NOV	17 NOV 84	
1984 116C		15397	USSR	14 NOV	16 NOV 84	
1984 117A	COSMOS 1609	15395	USSR	14 NOV	28 NOV 84	
1984 117B		15396	USSR	14 NOV	25 NOV 84	
1984 117D		15408	USSR	14 NOV	6 JUL 85	
1984 117E		15409	USSR	14 NOV	26 APR 87	
1984 117F		15410	USSR	14 NOV	1 MAY 85	
1984 117G		15411	USSR	14 NOV	1 DEC 84	
1984 117H		15412	USSR	14 NOV	2 APR 85	
1984 117J		15413	USSR	14 NOV	8 MAR 85	
1984 117K		15418	USSR	14 NOV	30 DEC 84	
1984 117L		15419	USSR	14 NOV	22 FEB 85	
1984 117M		15421	USSR	14 NOV	11 DEC 84	
1984 117N		15428	USSR	14 NOV	24 DEC 84	
1984 119A	COSMOS 1611	15403	USSR	14 NOV	11 JAN 85	
1984 119B		15404	USSR	21 NOV	25 NOV 84	
1984 119C		15405	USSR	21 NOV	22 NOV 84	
1984 120A	COSMOS 1612	15406	USSR	27 NOV	31 JAN 85	
1984 120B		15407	USSR	27 NOV	2 DEC 84	
1984 121A	COSMOS 1613	15414	USSR	29 NOV	24 DEC 84	
1984 121B		15415	USSR	29 NOV	12 DEC 84	
1984 121C		15416	USSR	29 NOV	6 DEC 84	
1984 121D		15417	USSR	29 NOV	1 DEC 84	
1984 121E		15456	USSR	29 NOV	5 MAY 87	
1984 121F		15457	USSR	29 NOV	13 APR 85	
1984 121G		15458	USSR	29 NOV	5 JUL 85	
1984 121H		15459	USSR	29 NOV	5 OCT 85	
1984 121J		15460	USSR	29 NOV	12 MAY 85	
1984 121K		15461	USSR	29 NOV	11 JAN 85	
1984 121L		15462	USSR	29 NOV	8 JAN 85	
1984 121M		15463	USSR	29 NOV	21 JAN 85	
1984 124B		15430	USSR	14 DEC	11 JAN 85	
1984 124C		15431	USSR	14 DEC	20 JAN 85	
1984 124D		15435	USSR	14 DEC	21 JAN 85	
1984 124E		15436	USSR	14 DEC	12 JAN 85	
1984 124F		15437	USSR	14 DEC	9 JAN 85	
1984 124G		15438	USSR	14 DEC	20 DEC 84	
1984 125B		15433	USSR	15 DEC	16 DEC 84	
1984 125C		15434	USSR	15 DEC	16 DEC 84	
1984 125E	V1 DESCENT CRAFT	15858	USSR	15 DEC	10 JUN 85	
1984 125F	VEGA 1 BALLOON	15859	USSR	15 DEC	10 JUN 85	
1984 126A	COSMOS 1614	15442	USSR	19 DEC	19 DEC 84	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1984 LAUNCHES (CONT.)						
1984 126B		15443	USSR	19 DEC	21 DEC 84	
1984 126C		15444	USSR	19 DEC	20 DEC 84	
1984 126D		15445	USSR	19 DEC	20 DEC 84	
1984 127A	COSMOS 1615	15446	USSR	20 DEC	15 APR 90	
1984 127B		15448	USSR	20 DEC	9 APR 84	
1984 128C		15451	USSR	21 DEC	23 DEC 84	
1984 128D		15452	USSR	21 DEC	23 DEC 84	
1984 128E	V2 DESCENT CRAFT	15856	USSR	21 DEC	14 JUN 85	
1984 128F	VEGA 2 BALLOON	15857	USSR	21 DEC	14 JUN 85	
1984 129C		15455	US	22 DEC	17 JAN 85	
1985 LAUNCHES						
1985 001C		15466	JAPAN	7 JAN	22 MAY 85	
1985 002A	COSMOS 1616	15467	USSR	9 JAN	4 MAR 85	
1985 002B		15468	USSR	9 JAN	15 JAN 85	
1985 004B		15477	USSR	16 JAN	27 MAR 85	
1985 004C		15478	USSR	16 JAN	21 MAR 85	
1985 005A	COSMOS 1623	15479	USSR	16 JAN	30 JAN 85	
1985 005B		15480	USSR	16 JAN	5 FEB 85	
1985 005C		15498	USSR	16 JAN	9 NOV 85	
1985 005D		15499	USSR	16 JAN	31 MAR 87	
1985 005E		15500	USSR	16 JAN	22 JUL 85	
1985 005F		15501	USSR	16 JAN	19 MAY 85	
1985 005G		15509	USSR	16 JAN	26 MAY 85	
1985 005H		15510	USSR	16 JAN	26 FEB 85	
1985 007B		15485	USSR	18 JAN	20 JAN 85	
1985 007C		15486	USSR	18 JAN	19 JAN 85	
1985 007E		15488	USSR	18 JAN	21 SEP 85	
1985 008A	COSMOS 1625	15492	USSR	23 JAN	25 JAN 85	
1985 003B		15493	USSR	23 JAN	24 JAN 85	
1985 009C		15497	USSR	24 JAN	2 FEB 89	
1985 010A	STS 51C	15496	US	24 JAN	27 JAN 85	
1985 012A	COSMOS 1628	15514	USSR	6 FEB	20 FEB 85	
1985 012B		15515	USSR	6 FEB	21 FEB 85	
1985 012C		15568	USSR	6 FEB	12 SEP 85	
1985 012D		15569	USSR	6 FEB	14 JUL 87	
1985 012E		15570	USSR	6 FEB	31 MAY 85	
1985 012F		15571	USSR	6 FEB	28 JUL 85	
1985 012G		15572	USSR	6 FEB	9 JAN 86	
1985 012H		15573	USSR	6 FEB	26 MAR 85	
1985 012J		15579	USSR	6 FEB	14 MAR 85	
1985 012K		15580	USSR	6 FEB	18 MAR 85	
1985 012L		15591	USSR	6 FEB	11 APR 85	
1985 015D		15563	ESA	8 FEB	5 APR 86	
1985 016B		15575	USSR	21 FEB	24 FEB 85	
1985 016C		15576	USSR	21 FEB	22 FEB 85	
1985 016D		15577	USSR	21 FEB	27 OCT 86	
1985 016E		15578	USSR	21 FEB	27 OCT 86	
1985 017A	COSMOS 1630	15582	USSR	27 FEB	23 APR 85	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 0173		15583	USSR	27 FEB	5 MAR 85	
1985 018A	COSMOS 1631	15584	USSR	27 FEB	8 DEC 90	
1985 0180		15585	USSR	27 FEB	20 OCT 89	
1985 019A		15589	USSR	1 MAR	15 MAR 85	
1985 0190	COSMOS 1632	15590	USSR	1 MAR	4 MAR 85	
1985 019C		15609	USSR	1 MAR	26 MAR 85	
1985 019D		15610	USSR	1 MAR	17 MAR 85	
1985 019E		15611	USSR	1 MAR	24 MAR 85	
1985 019F		15612	USSR	1 MAR	20 MAR 85	
1985 0240		15627	USSR	22 MAR	25 MAR 85	
1985 0240		15628	USSR	22 MAR	23 MAR 85	
1985 024E		15632	USSR	22 MAR	7 AUG 85	
1985 024F		15633	USSR	22 MAR	20 JAN 86	
1985 026A		15634	USSR	25 MAR	18 OCT 85	
1985 0250	COSMOS 1643	15635	USSR	25 MAR	29 MAR 85	
1985 027A		15636	USSR	3 APR	17 APR 85	
1985 027B		15637	USSR	3 APR	21 APR 85	
1985 027C		15638	USSR	3 APR	7 APR 85	
1985 027D		15639	USSR	3 APR	6 APR 85	
1985 027E		15640	USSR	3 APR	7 APR 85	
1985 027F		15647	USSR	3 APR	7 JAN 86	
1985 027G		15648	USSR	3 APR	15 OCT 85	
1985 027H		15649	USSR	3 APR	26 APR 85	
1985 027J		15650	USSR	3 APR	9 JUL 97	
1985 027K		15651	USSR	3 APR	26 SEP 85	
1985 027L		15652	USSR	3 APR	14 JUN 85	
1985 027M		15657	USSR	3 APR	7 AUG 85	
1985 027N		15658	USSR	3 APR	16 JUN 85	
1985 027A	STS 510	15641	US	12 APR	19 APR 85	
1985 029A	COSMOS 1645	15645	USSR	16 APR	29 APR 85	
1985 029B		15646	USSR	16 APR	10 MAY 85	
1985 029C		15667	USSR	16 APR	23 JUN 85	
1985 029E		15668	USSR	16 APR	13 MAY 85	
1985 029F		15669	USSR	16 APR	4 JUN 85	
1985 029G		15670	USSR	16 APR	19 MAY 85	
1985 030A	COSMOS 1646	15671	USSR	16 APR	1 MAY 85	
1985 0305		15653	USSR	18 APR	12 MAY 85	
1985 030C		15654	USSR	18 APR	19 APR 85	
1985 030C		18617	USSR	18 APR	27 DEC 87	
1985 030E		18620	USSR	18 APR	25 MAR 88	
1985 030E		18621	USSR	18 APR	6 DEC 87	
1985 030H		18624	USSR	18 APR	8 DEC 87	
1985 030V		18660	USSR	18 APR	28 DEC 87	
1985 030Z		18664	USSR	18 APR	21 DEC 87	
1985 030AA		18799	USSR	18 APR	5 JUL 89	
1985 031A	COSMOS 1647	15655	USSR	19 APR	11 JUN 85	
1985 0313		15656	USSR	19 APR	23 APR 85	
1985 032A	COSMOS 1648	15659	USSR	25 APR	6 MAY 85	
1985 032A		15660	USSR	25 APR	27 APR 85	
1985 032C		15672	USSR	25 APR	10 MAY 85	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 0320		15673	USSR	25 APR	15 MAY 85	
1985 032E		15674	USSR	25 APR	21 MAY 85	
1985 032F		15675	USSR	25 APR	11 MAY 85	
1985 032G		15676	USSR	25 APR	9 MAY 85	
1985 033B		15682	USSR	26 APR	20 JUN 85	
1985 033C		15683	USSR	26 APR	28 JUN 85	
1985 034A	STS 519	15665	US	29 APR	6 MAY 85	
1985 034B	NUSAT 1	15686	US	29 APR	15 DEC 86	
1985 035B		16170	USSR	16 OCT	23 OCT 85	35*
1985 035A		15694	USSR	15 MAY	29 MAY 85	
1985 036H	COSMOS 1649	15695	USSR	15 MAY	28 MAY 85	
1985 036C		15696	USSR	15 MAY	18 MAY 85	
1985 036D		15742	USSR	15 MAY	19 MAR 85	
1985 036E		15743	USSR	15 MAY	10 AUG 85	
1985 036F		15744	USSR	15 MAY	29 JUN 85	
1985 036G		15745	USSR	15 MAY	1 OCT 85	
1985 036H		15746	USSR	15 MAY	17 DEC 85	
1985 036J		15747	USSR	15 MAY	3 JUN 85	
1985 036K		15753	USSR	15 MAY	14 JUN 85	
1985 036L		15754	USSR	15 MAY	26 OCT 87	
1985 0370		15700	USSR	17 MAY	20 MAY 85	
1985 037E		15701	USSR	17 MAY	18 MAY 85	
1985 038A		15732	USSR	22 MAY	5 JUN 85	
1985 038B	COSMOS 1653	15733	USSR	22 MAY	2 JUN 85	
1985 038C		15790	USSR	22 MAY	26 JUN 85	
1985 0390		15791	USSR	22 MAY	6 JUN 85	
1985 038E		15792	USSR	22 MAY	13 JUL 85	
1985 038F		15793	USSR	22 MAY	18 JUN 85	
1985 0390		15794	USSR	22 MAY	6 JUN 85	
1985 039A		15734	USSR	23 MAY	7 AUG 85	
1985 039B		15735	USSR	23 MAY	29 MAY 85	
1985 039C		15851	USSR	23 MAY	14 AUG 85	
1985 039D		15853	USSR	23 MAY	27 JUN 85	
1985 039E		15854	USSR	23 MAY	18 AUG 85	
1985 039F		15855	USSR	7 JUN	7 JUL 85	
1985 039G		15893	USSR	7 JUN	23 JUN 85	
1985 039H		15894	USSR	23 MAY	23 JUN 85	
1985 039J		15895	USSR	23 MAY	23 JUN 85	
1985 039K		15896	USSR	23 MAY	24 JUN 85	
1985 039L		15897	USSR	23 MAY	24 JUN 85	
1985 039M		15898	USSR	23 MAY	25 JUN 85	
1985 039N		15899	USSR	23 MAY	25 JUN 85	
1985 039P		15900	USSR	23 MAY	25 JUN 85	
1985 039Q		15901	USSR	23 MAY	27 JUN 85	
1985 039R		15902	USSR	23 MAY	28 JUN 85	
1985 039S		15903	USSR	23 MAY	29 JUN 85	
1985 039T		15904	USSR	23 MAY	30 JUN 85	
1985 039U		15705	USSR	23 MAY	6 JUL 85	
1985 040C		15739	USSR	29 MAY	4 JUL 85	
1985 040C		15740	USSR	29 MAY	25 JUN 85	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 040E		15748	USSR	29 MAY	17 JUN 85	
1985 040F		15749	USSR	29 MAY	31 MAY 85	
1985 040G		15750	USSR	29 MAY	1 JUN 85	
1985 040H		15795	USSR	29 MAY	23 JUN 85	
1985 042B		15770	USSR	30 MAY	3 JUN 85	
1985 042C		15771	USSR	30 MAY	31 MAY 85	
1985 043A	SOYUZ T-13	15804	USSR	6 JUN	26 SEP 85	
1985 043B		15805	USSR	6 JUN	8 JUN 85	
1985 043C		16097	USSR	6 JUN	21 JAN 86	
1985 044A	COSMOS 1657	15806	USSR	7 JUN	21 JUN 85	
1985 044B		15907	USSR	7 JUN	11 JUN 85	
1985 044C		15843	USSR	7 JUN	29 JUN 85	
1985 044D		15844	USSR	7 JUN	3 JUL 85	
1985 044E		15848	USSR	7 JUN	12 JUL 85	
1985 044F		15849	USSR	7 JUN	24 JUN 85	
1985 044G		15852	USSR	7 JUN	18 AUG 85	
1985 045B		15809	USSR	11 JUN	24 AUG 85	
1985 045C		15910	USSR	11 JUN	30 JUL 85	
1985 046A	COSMOS 1659	15813	USSR	13 JUN	27 JUN 85	
1985 0463		15919	USSR	13 JUN	29 JUN 85	
1985 046C		15820	USSR	13 JUN	15 JUN 85	
1985 046D		15867	USSR	13 JUN	23 OCT 85	
1985 046E		15869	USSR	13 JUN	11 NOV 87	
1985 046F		15870	USSR	13 JUN	25 DEC 85	
1985 046G		15871	USSR	13 JUN	27 NOV 85	
1985 046H		15872	USSR	13 JUN	30 MAR 86	
1985 046J		15823	US	13 JUN	14 JUL 85	
1985 048A	STS 51G	15831	US	17 JUN	24 JUN 85	
1985 048E	SPARTAN 1	15828	USSR	20 JUN	24 JUN 85	
1985 049B		15829	USSR	18 JUN	1 SEP 85	
1985 049C		15333	USSR	18 JUN	28 SEP 85	
1985 050A	COSMOS 1662	15835	USSR	19 JUN	16 NOV 89	
1985 050C		16015	USSR	19 JUN	26 OCT 86	
1985 050H		16016	USSR	19 JUN	16 OCT 86	
1985 050J		16953	USSR	19 JUN	9 OCT 86	
1985 050U		15838	USSR	19 JUN	9 SEP 87	
1985 051A	PROGRESS 24	15839	USSR	21 JUN	15 JUL 85	
1985 051B		15840	USSR	21 JUN	24 JUN 85	
1985 052A	COSMOS 1663	15841	USSR	21 JUN	5 JUL 85	
1985 052B		15345	USSR	21 JUN	30 JUN 85	
1985 052C		15446	USSR	21 JUN	24 JUN 85	
1985 052D		15480	USSR	21 JUN	24 JUN 85	
1985 052E		15881	USSR	21 JUN	13 AUG 85	
1985 052F		15882	USSR	21 JUN	19 JUL 85	
1985 052G		15883	USSR	21 JUN	6 JUL 85	
1985 052H		15884	USSR	21 JUN	27 JUL 85	
1985 052J		15942	USSR	21 JUN	16 JUL 85	
1985 053A		15847	USSR	21 JUN	28 JUN 85	
1985 053B		15850	USSR	21 JUN	24 JUN	
1985 053C			USSR	21 JUN	27 JUN 85	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 054A	COSMOS 1664	15860	USSR	26 JUN	5 JUL 85	
1985 054B		15861	USSR	26 JUN	10 JUL 85	
1985 054C		15866	USSR	26 JUN	30 JUN 85	
1985 054D		15885	USSR	26 JUN	16 JUL 85	
1985 054E		15865	USSR	26 JUN	20 JUL 85	
1985 054F		15897	USSR	26 JUN	7 JUL 85	
1985 054G		15888	USSR	26 JUN	8 JUL 85	
1985 057A	COSMOS 1665	15877	USSR	3 JUL	17 JUL 85	
1985 057B		15878	USSR	3 JUL	10 JUL 85	
1985 057C		15879	USSR	3 JUL	25 AUG 85	
1985 057D		15912	USSR	3 JUL	4 AUG 85	
1985 057E		15913	USSR	3 JUL	25 JUL 85	
1985 057F		15914	USSR	3 JUL	22 JUL 85	
1985 057G		15915	USSR	3 JUL	2 SEP 85	
1985 057H		15917	USSR	3 JUL	25 JUL 85	
1985 059A	COSMOS 1667	15891	USSR	10 JUL	17 JUL 85	
1985 059B		15892	USSR	10 JUL	19 JUL 85	
1985 059C		15920	USSR	10 JUL	27 JUL 85	
1985 060A	COSMOS 1668	15905	USSR	15 JUL	29 JUL 85	
1985 060B		15907	USSR	15 JUL	24 JUL 85	
1985 060C		15908	USSR	15 JUL	16 JUL 85	
1985 060D		15921	USSR	15 JUL	3 SEP 85	
1985 060E		15922	USSR	15 JUL	4 AUG 85	
1985 060F		15923	USSR	15 JUL	2 AUG 85	
1985 060G		15924	USSR	15 JUL	1 AUG 85	
1985 060H		15926	USSR	15 JUL	9 AUG 85	
1985 060J		15927	USSR	15 JUL	31 JUL 85	
1985 060K		15928	USSR	15 JUL	2 AUG 85	
1985 061B		15910	USSR	17 JUL	22 AUG 85	
1985 061C		15911	USSR	17 JUL	23 AUG 85	
1985 062A	COSMOS 1669	15918	USSR	19 JUL	30 AUG 85	
1985 062B		15919	USSR	19 JUL	23 JUL 85	
1985 063A	STS 51F	15925	US	29 JUL	6 AUG 85	
1985 063B	PDP	15929	US	29 JUL	6 AUG 85	
1985 064B		16195	USSR	1 AUG	27 OCT 85	
1985 064C		16196	USSR	1 AUG	8 DEC 85	
1985 064D		16213	USSR	1 AUG	22 FEB 88	
1985 064E		18506	USSR	1 AUG	28 SEP 88	
1985 065A	COSMOS 1671	15931	USSR	2 AUG	16 AUG 85	
1985 065B		15932	USSR	2 AUG	10 AUG 85	
1985 065C		15961	USSR	2 AUG	10 SEP 85	
1985 065D		15962	USSR	2 AUG	15 SEP 85	
1985 065E		15964	USSR	2 AUG	3 SEP 85	
1985 065F		15965	USSR	2 AUG	21 AUG 85	
1985 065G		15966	USSR	2 AUG	25 AUG 85	
1985 067A	COSMOS 1672	15940	USSR	7 AUG	21 AUG 85	
1985 067B		15941	USSR	7 AUG	11 AUG 85	
1985 067C		15971	USSR	7 AUG	23 AUG 85	
1985 067D		15972	USSR	7 AUG	15 OCT 85	
1985 067E		15973	USSR	7 AUG	15 SEP 85	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 067F		15974	USSR	7 AUG	3 SEP 85	
1985 067G		15975	USSR	7 AUG	22 AUG 85	
1985 067H		15976	USSR	7 AUG	24 AUG 85	
1985 068A	COSMOS 1673	15942	USSR	8 AUG	19 SEP 85	
1985 068B		15943	USSR	8 AUG	14 AUG 85	
1985 068C		15949	USSR	8 AUG	10 AUG 85	
1985 070B		15947	USSR	8 AUG	11 AUG 85	
1985 070C		15948	USSR	8 AUG	9 AUG 85	
1985 070D		15956	USSR	8 AUG	31 DEC 86	
1985 070E		15957	USSR	8 AUG	27 OCT 86	
1985 071B		15953	USSR	12 AUG	23 OCT 85	
1985 071C		15954	USSR	12 AUG	27 SEP 85	
1985 071E		15958	USSR	12 AUG	1 OCT 85	
1985 071F		16061	USSR	12 AUG	30 SEP 85	
1985 072A	COSMOS 1676	15959	USSR	16 AUG	14 OCT 85	
1985 072B		15960	USSR	16 AUG	22 AUG 85	
1985 073B		15968	USSR	16 AUG	22 AUG 85	
1985 073D		16388	JAPAN	16 AUG	13 NOV 85	
1985 074B		15978	JAPAN	18 AUG	22 MAY 86	
1985 074C		15979	USSR	22 AUG	4 NOV 85	
1985 075B		16192	USSR	22 AUG	22 OCT 85	
1985 075C		16193	USSR	23 AUG	14 DEC 85	
1985 075D		16199	USSR	23 AUG	27 OCT 85	
1985 075A	STS 51I	16219	USSR	23 AUG	28 NOV 85	
1985 075H		15992	US	27 AUG	3 SEP 85	
1985 077A	COSMOS 1678	16013	US	27 AUG	28 FEB 86	
1985 077B		15997	USSR	29 AUG	12 SEP 85	
1985 077C		15998	USSR	29 AUG	2 SEP 85	
1985 077D		16002	USSR	29 AUG	6 SEP 85	
1985 077E		16021	USSR	29 AUG	15 SEP 85	
1985 077F		16022	USSR	29 AUG	3 OCT 85	
1985 077G		16023	USSR	29 AUG	25 OCT 85	
1985 077H		16024	USSR	29 AUG	14 SEP 85	
1985 077J		16025	USSR	29 AUG	14 SEP 95	
1985 078A	COSMOS 1679	16026	USSR	29 AUG	27 SEP 85	
1985 078B		15999	USSR	29 AUG	18 OCT 95	
1985 080A	COSMOS 1681	16000	USSR	29 AUG	4 SEP 85	
1985 080B		16018	USSR	29 AUG	19 SEP 85	
1985 080C		16019	USSR	6 SEP	10 SEP 85	
1985 080D		16058	USSR	6 SEP	23 SEP 85	
1985 080E		16059	USSR	16 SEP	26 SEP 85	
1985 081A	SOYUZ T-14	16060	USSR	6 SEP	20 SEP 85	
1985 081B		16051	USSR	17 SEP	21 NOV 85	
1985 081C		16052	USSR	17 SEP	20 SEP 85	
1985 082A	COSMOS 1682	16261	USSR	17 SEP	29 DEC 86	
1985 082B		16054	USSR	19 SEP	17 MAY 88	
1985 082C		16055	USSR	19 SEP	19 SEP 85	
1985 082D		17248	USSR	19 SEP	27 DEC 86	
1985 083A	COSMOS 1683	17288	USSR	19 SEP	21 JAN 87	
1985 083B		16056	USSR	19 SEP	4 OCT 85	
		16057	USSR	19 SEP	3 OCT 85	

DECAYED OBJECTS

INFR- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 063C		16120	USSR	19 SEP	28 MAR 86	
1985 083D		16121	USSR	19 SEP	26 DEC 87	
1985 083E		16123	USSR	19 SEP	24 DEC 85	
1985 083F		16124	USSR	19 SEP	22 MAY 86	
1985 083G		16126	USSR	19 SEP	24 OCT 85	
1985 083H		16127	USSR	19 SEP	4 MAR 86	
1985 0843		16065	USSR	24 SEP	21 NOV 85	
1985 084C		16066	USSR	24 SEP	25 OCT 85	
1985 084E		16090	USSR	24 SEP	16 NOV 85	
1985 085A	COSMOS 1605	16088	USSR	27 SEP	10 OCT 85	
1985 085B		16089	USSR	27 SEP	8 OCT 85	
1985 085C		16134	USSR	27 SEP	8 FEB 86	
1985 085D		16135	USSR	27 SEP	24 NOV 87	
1985 085E		16136	USSR	27 SEP	23 DEC 85	
1985 085F		16145	USSR	27 SEP	30 APR 86	
1985 085G		16146	USSR	27 SEP	15 APR 86	
1985 085H		16159	USSR	27 SEP	24 FEB 86	
1985 085J		16160	USSR	27 SEP	16 OCT 86	
1985 085K		16161	USSR	27 SEP	18 OCT 85	
1985 085L		16162	USSR	27 SEP	7 NOV 85	
1985 086A	COSMOS 1686	16095	USSR	27 SEP	7 FEB 91	
1985 086B		16096	USSR	27 SEP	2 OCT 85	
1985 086C		16123	USSR	27 SEP	1 FEB 86	
1985 086D		16104	USSR	30 SEP	28 NOV 85	
1985 086E		16105	USSR	30 SEP	3 NOV 85	
1985 086F		16108	USSR	2 OCT	19 JUN 88	
1985 091B		16113	USSR	3 OCT	15 DEC 85	
1985 091C		16114	USSR	3 OCT	16 NOV 85	
1985 092A	STS 51J	16115	US	3 OCT	7 OCT 85	
1985 094H		16264	USSR	9 OCT	23 MAR 90	
1985 094J		16265	USSR	9 OCT	13 NOV 89	
1985 095A	COSMOS 1696	16169	USSR	16 OCT	30 OCT 85	
1985 0953	COSMOS 1688	16197	USSR	2 OCT	2 JUL 88	
1985 095C		16227	USSR	16 OCT	7 NOV 85	
1985 095D		16228	USSR	16 OCT	1 DEC 85	
1985 095E		16232	USSR	16 OCT	7 NOV 85	
1985 095F		16233	USSR	16 OCT	7 NOV 85	
1985 095G		16234	USSR	16 OCT	3 NOV 85	
1985 095A		16177	PRC	21 OCT	7 NOV 85	
1985 0953	PRC 17	16178	PRC	21 OCT	3 NOV 85	
1985 095C		16179	PRC	21 OCT	24 OCT 85	
1985 096D		16180	PRC	21 OCT	24 OCT 85	
1985 0933		16184	USSR	22 OCT	7 JAN 86	
1985 094C		16185	USSR	22 OCT	14 DEC 85	
1985 0993		16186	USSR	23 OCT	24 MAR 86	
1985 097C		16189	USSR	23 OCT	21 MAR 86	
1985 098D		16190	USSR	23 OCT	12 FEB 86	
1985 1014	COSMOS 1699	16198	USSR	25 OCT	23 DEC 85	
1985 1016		16212	USSR	25 OCT	30 OCT 85	
1985 1028		16200	USSR	25 OCT	28 OCT 85	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 102C		16201	USSR	25 OCT	26 OCT 85	
1985 102E		16215	USSR	25 OCT	27 OCT 86	
1985 102F		16216	USSR	25 OCT	18 MAY 86	
1985 103B		16221	USSR	28 OCT	4 DEC 85	
1985 103C		16222	USSR	26 OCT	18 NOV 85	
1985 103E		16224	USSR	23 OCT	20 NOV 85	
1985 103F		16225	USSR	28 OCT	29 NOV 85	
1985 103G		16226	USSR	28 OCT	1 DEC 85	
1985 104A	STS 61A	16230	US	30 OCT	6 NOV 85	
1985 104B	GLOWAR	16231	US	30 OCT	26 DEC 86	35*
1985 105B		16236	USSR	9 NOV	11 JAN 86	
1985 105C		16237	USSR	9 NOV	24 DEC 85	
1985 106A	COSMOS 1702	16247	USSR	13 NOV	27 NOV 85	
1985 106B		16248	USSR	13 NOV	28 NOV 85	
1985 106C		16285	USSR	13 NOV	31 MAY 86	
1985 106D		16286	USSR	13 NOV	28 JAN 83	
1985 106E		16287	USSR	13 NOV	13 DEC 85	
1985 106F		16288	USSR	13 NOV	10 AUG 86	
1985 106G		16289	USSR	13 NOV	7 APR 86	
1985 106H		16290	USSR	13 NOV	19 MAR 86	
1985 107B		16251	USSR	15 NOV	18 NOV 85	
1985 107C		16252	USSR	15 NOV	16 NOV 85	
1985 107D		16254	USSR	15 NOV	27 OCT 86	
1985 107E		16255	USSR	15 NOV	19 JUL 86	
1985 109A	STS 61B	16273	US	27 NOV	3 DEC 85	
1985 109E	DEX TARGET	16277	US	30 NOV	2 MAR 87	35*
1985 111A	COSMOS 1705	16296	USSR	3 DEC	17 DEC 85	
1985 111B		16297	USSR	3 DEC	19 DEC 85	
1985 111C		16305	USSR	3 DEC	6 DEC 85	
1985 111D		16353	USSR	3 DEC	8 JAN 86	
1985 111E		16354	USSR	3 DEC	10 JAN 86	
1985 111F		16355	USSR	3 DEC	7 MAR 86	
1985 111G		16356	USSR	3 DEC	4 APR 86	
1985 111H		16357	USSR	3 DEC	13 OCT 86	
1985 111J		16358	USSR	3 DEC	22 DEC 85	
1985 111K		16359	USSR	3 DEC	12 JAN 85	
1985 111L		16370	USSR	3 DEC	2 JUL 85	
1985 111M		16371	USSR	3 DEC	24 JAN 85	
1985 111N		16372	USSR	3 DEC	14 JAN 86	
1985 111Q		16374	USSR	3 DEC	22 FEB 86	
1985 112A	COSMOS 1706	16305	USSR	11 DEC	9 FEB 86	
1985 114A		16328	US	13 DEC	11 MAY 89	
1985 114B		16329	US	13 DEC	9 AUG 87	
1985 114C		16330	US	13 DEC	11 APR 83	
1985 114D		16331	US	13 DEC	2 MAR 87	
1985 114E		17257	US	13 DEC	23 FEB 87	
1985 115A	COSMOS 1708	16331	USSR	13 DEC	27 DEC 85	
1985 115B		16332	USSR	13 DEC	17 DEC 85	
1985 115C		16340	USSR	13 DEC	22 DEC 85	
1985 115D		16425	USSR	13 DEC	30 DEC 85	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 115E		16427	USSR	13 DEC	29 JAN 86	
1985 115F		16428	USSR	13 DEC	28 DEC 85	
1985 115G		16431	USSR	13 DEC	4 JAN 86	
1985 115H		16432	USSR	13 DEC	15 JAN 86	
1985 115J		16433	USSR	13 DEC	7 JAN 86	
1985 117B		16394	USSR	24 DEC	30 JAN 86	
1985 117C		16395	USSR	24 DEC	21 JAN 86	
1985 117D		16400	USSR	24 DEC	16 JAN 86	
1985 117E		16401	USSR	24 DEC	20 JAN 86	
1985 117G		16410	USSR	24 DEC	19 JAN 86	
1985 117H		16411	USSR	24 DEC	17 JAN 86	
1985 117J		16412	USSR	24 DEC	22 JAN 86	
1985 1180		16399	USSR	24 DEC	27 DEC 85	
1985 118E		16403	USSR	24 DEC	25 DEC 85	
1985 118G		16405	USSR	24 DEC	27 DEC 85	
1985 118H		16406	USSR	24 DEC	27 DEC 85	
1985 118J		16407	USSR	24 DEC	28 DEC 85	
1985 120A	COSMOS 1713	16429	USSR	27 DEC	22 JAN 86	
1985 120B		16430	USSR	27 DEC	27 JAN 86	
1985 120C		16508	USSR	27 DEC	30 JAN 86	
1985 120D		16509	USSR	27 DEC	3 FEB 86	
1985 121A	COSMOS 1714	16434	USSR	28 DEC	27 FEB 86	
1985 121B		16435	USSR	28 DEC	11 JAN 86	
1985 121C		16436	USSR	28 DEC	8 JAN 86	
1985 121D		16437	USSR	28 DEC	8 JUL 90	
1985 121E		16438	USSR	28 DEC	22 APR 90	
1985 121F		16439	USSR	23 DEC	4 APR 90	
1985 121G		16440	USSR	28 DEC	16 NOV 89	
1986 LAUNCHES						
1986 001A	COSMOS 1715	16447	USSR	8 JAN	22 JAN 86	
1986 001B		16448	USSR	8 JAN	16 JAN 86	
1986 001C		16505	USSR	8 JAN	25 JAN 86	
1986 001D		16506	USSR	8 JAN	27 JAN 86	
1986 001E		16507	USSR	8 JAN	31 JAN 86	
1986 003A	STS 61C	16481	US	12 JAN	18 JAN 86	
1986 004A	COSMOS 1724	16490	USSR	15 JAN	15 MAR 86	
1986 004B		16491	USSR	15 JAN	21 JAN 85	
1986 004C		16492	USSR	15 JAN	16 JAN 86	
1986 007B		16498	USSR	17 JAN	18 JAN 86	
1986 007C		16499	USSR	17 JAN	18 JAN 86	
1986 007D		16500	USSR	17 JAN	12 AUG 87	
1986 009A	COSMOS 1728	16512	USSR	28 JAN	11 FEB 86	
1986 009B		16513	USSR	28 JAN	6 FEB 86	
1986 009C		16514	USSR	28 JAN	31 JAN 86	
1986 009D		16595	USSR	28 JAN	26 FEB 86	
1986 009E		16596	USSR	28 JAN	18 FEB 86	
1986 009F		16599	USSR	28 JAN	15 FEB 86	
1986 011B		16529	USSR	1 FEB	10 MAR 86	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1935 LAUNCHES (CONT.)						
1986 011C		16530	USSR	1 FEB	24 MAR 86	
1986 011D		16531	USSR	1 FEB	31 MAR 86	
1986 011E		16532	USSR	1 FEB	13 MAR 86	
1985 012A	COSMOS 1730	16540	USSR	4 FEB	13 FEB 86	
1985 012B		16541	USSR	4 FEB	11 FEB 86	
1986 012C		16602	USSR	4 FEB	17 MAR 86	
1986 012D		16603	USSR	4 FEB	22 FEB 86	
1986 012E		16604	USSR	4 FEB	2 MAR 86	
1986 013A		16589	USSR	7 FEB	3 OCT 86	
1986 013B		16590	USSR	7 FEB	9 FEB 86	
1986 016B		16598	JAPAN	12 FEB	19 APR 87	
1986 016L		16601	JAPAN	12 FEB	22 FEB 86	
1986 017B		16610	USSR	19 FEB	24 FEB 86	
1986 017E		18385	USSR	19 FEB	8 MAR 88	
1986 017F		18386	USSR	19 FEB	21 MAR 88	
1985 017H		18889	USSR	19 FEB	5 MAR 88	
1986 017J		19271	USSR	19 FEB	10 AUG 88	
1986 017K		19272	USSR	19 FEB	25 AUG 88	
1986 017L		19387	USSR	19 FEB	26 SEP 88	
1986 017M		19388	USSR	19 FEB	17 AUG 88	
1986 017Q		19442	USSR	19 FEB	5 OCT 88	
1986 017W		19568	USSR	19 FEB	22 OCT 88	
1986 017X		19569	USSR	19 FEB	22 OCT 88	
1986 017Y		19570	USSR	19 FEB	19 OCT 88	
1986 017Z		19571	USSR	19 FEB	20 OCT 88	
1986 017AU		19680	USSR	19 FEB	22 DEC 88	
1986 017AV		19681	USSR	19 FEB	28 DEC 88	
1986 017AW		19682	USSR	19 FEB	23 DEC 88	
1986 017AX		19692	USSR	19 FEB	19 DEC 88	
1986 017AY		19693	USSR	19 FEB	24 DEC 88	
1986 017BA		19701	USSR	19 FEB	28 DEC 88	
1986 017BC		19703	USSR	19 FEB	22 DEC 88	
1986 017CQ		20921	USSR	19 FEB	9 NOV 90	
1986 017CS		20922	USSR	19 FEB	8 NOV 90	
1986 017CV		21425	USSR	17 JUN	18 OCT 91	
1986 017FE		21649	USSR	19 FEB	29 AUG 91	
1986 017FF		21650	USSR	19 FEB	13 AUG 91	
1986 017FG		21651	USSR	19 FEB	12 AUG 91	
1986 017FH		21652	USSR	19 FEB	21 AUG 91	
1986 017FJ		21661	USSR	15 FEB	29 AUG 91	
1986 019DH		17336	ESA	22 FEB	10 NOV 89	
1986 019EZ		17391	ESA	22 FEB	9 JUL 89	
1986 019FK		17424	ESA	22 FEB	25 NOV 89	
1986 019FL		17425	ESA	22 FEB	2 FEB 89	
1986 019FY		17437	ESA	22 FEB	19 OCT 88	
1986 019GD		17442	ESA	22 FEB	5 DEC 89	
1986 019HZ		17545	ESA	22 FEB	13 DEC 89	
1986 019JJ		17554	ESA	22 FEB	22 OCT 89	
1986 019QF		18174	ESA	22 FEB	9 AUG 89	
1986 019RV		18266	ESA	22 FEB	11 DEC 88	
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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986 LAUNCHES (CONT.)						
1986 019TD		18553	ESA	22 FEB	3 JUN 89	
1986 019UD		18865	ESA	22 FEB	13 NOV 89	
1986 019UJ		19009	ESA	22 FEB	13 AUG 89	
1986 019UJ		19315	ESA	22 FEB	6 AUG 89	
1986 019VF		19855	ESA	22 FEB	16 MAR 89	
1986 020A	COSMOS 1734	16618	USSR	26 FEB	26 APR 86	
1986 020B		16619	USSR	26 FEB	3 MAR 86	
1986 020C		16592	USSR	26 FEB	27 APR 86	
1986 020D		16693	USSR	26 FEB	30 APR 86	
1986 021A	COSMOS 1735	16620	USSR	27 FEB	17 NOV 88	
1986 021B		16621	USSR	27 FEB	27 FEB 86	
1986 022A	SOYUZ T-15	16643	USSR	13 MAR	16 JUL 86	
1986 022B		16644	USSR	13 MAR	16 MAR 86	
1986 023A	PROGRESS 25	16645	USSR	19 MAR	21 APR 86	
1986 023B		16846	USSR	19 MAR	22 MAR 86	
1986 024B		16806	USSR	21 MAR	1 SEP 86	
1986 024C		16807	USSR	21 MAR	27 JUN 86	
1986 024D		16803	USSR	21 MAR	26 JUN 86	
1986 024E		16832	USSR	21 MAR	15 AUG 87	
1986 025A	COSMOS 1737	16643	USSR	25 MAR	3 DEC 86	
1986 026D		16659	USSR	25 MAR	26 MAR 86	
1986 027B		16658	ESA	28 MAR	12 AUG 87	
1986 027C		16658	USSR	4 APR	8 APR 86	
1986 027D		16659	USSR	4 APR	5 APR 86	
1986 027E		16671	USSR	4 APR	27 OCT 86	
1986 028A	COSMOS 1739	16577	USSR	9 APR	7 JUN 86	
1986 028B		16578	USSR	14 APR	14 APR 86	
1986 029A	COSMOS 1740	16579	USSR	15 APR	28 APR 86	
1986 029B		16580	USSR	15 APR	27 APR 86	
1986 029C		16594	USSR	15 APR	14 DEC 86	
1986 029D		16595	USSR	15 APR	17 AUG 86	
1986 029E		16596	USSR	15 APR	18 MAR 87	
1986 029F		16697	USSR	15 APR	31 JUL 85	
1986 029G		16698	USSR	15 APR	7 OCT 86	
1986 029H		16699	USSR	15 APR	6 MAY 85	
1986 029I		16700	USSR	15 APR	11 MAY 85	
1986 029J		16701	USSR	15 APR	7 MAY 85	
1986 029L		16714	USSR	15 APR	18 APR 83	
1986 029M		16715	USSR	15 APR	8 MAY 85	
1986 031A		16634	USSR	16 APR	4 JUL 85	
1986 031C		16635	USSR	16 APR	12 JUN 86	
1986 032A	PROGRESS 26	16687	USSR	23 APR	23 JUN 86	
1986 032B		16688	USSR	23 APR	26 APR 86	
1986 033A	COSMOS 1742	16717	USSR	14 MAY	26 MAY 85	
1986 033B		16718	USSR	14 MAY	24 MAY 85	
1986 033C		16739	USSR	14 MAY	5 SEP 87	
1986 033D		16740	USSR	14 MAY	29 DEC 85	
1986 033E		16741	USSR	14 MAY	17 NOV 85	
1986 033F		16742	USSR	14 MAY	25 APR 83	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986 LAUNCHES (CONT.)						
1986 033G		16743	USSR	14 MAY	28 JUN 86	
1986 033H		16744	USSR	14 MAY	31 OCT 86	
1986 035A	SOYUZ TM	16722	USSR	21 MAY	30 MAY 85	
1986 035B		16723	USSR	21 MAY	24 MAY 85	
1986 035C		16748	USSR	21 MAY	22 MAR 87	
1986 036A	COSMOS 1744	16724	USSR	21 MAY	4 JUN 85	
1986 036B		16725	USSR	21 MAY	24 JUN 85	
1986 036C		16753	USSR	21 MAY	5 JUN 85	
1986 036D		16754	USSR	21 MAY	18 AUG 86	
1986 036E		16755	USSR	21 MAY	21 JUN 85	
1986 036F		16756	USSR	21 MAY	25 JUL 85	
1986 036G		16757	USSR	21 MAY	7 JUN 85	
1986 0398		16730	USSR	24 MAY	26 MAY 85	
1986 039C		16731	USSR	24 MAY	24 MAY 85	
1986 038F		16734	USSR	24 MAY	26 DEC 86	
1986 040A	COSMOS 1746	16737	USSR	28 MAY	12 JUN 85	
1986 040B		16738	USSR	28 MAY	2 JUN 85	
1986 040C		16747	USSR	28 MAY	6 JUN 85	
1986 040D		16783	USSR	28 MAY	13 JUN 86	
1986 040E		16784	USSR	28 MAY	13 JUN 86	
1986 040F		16785	USSR	28 MAY	14 JUN 86	
1986 040G		16786	USSR	28 MAY	13 JUN 86	
1986 040H		16787	USSR	28 MAY	7 JUL 86	
1986 040J		16788	USSR	28 MAY	23 JUN 86	
1986 041A	COSMOS 1747	16745	USSR	29 MAY	12 JUN 86	
1986 041B		16746	USSR	29 MAY	25 JUN 86	
1986 041C		16793	USSR	14 MAY	22 JUN 86	
1986 041D		16794	USSR	25 MAY	25 JUN 85	
1986 041E		16795	USSR	29 MAY	14 JUN 86	
1986 041F		16796	USSR	29 MAY	15 JUN 86	
1986 043A	COSMOS 1756	16767	USSR	6 JUN	4 AUG 86	
1986 043B		16768	USSR	6 JUN	13 JUN 85	
1986 044B		16770	USSR	10 JUN	12 JUN 85	
1986 044C		16771	USSR	10 JUN	11 JUN 85	
1986 044D		16789	USSR	10 JUN	7 MAR 90	
1986 044E		16790	USSR	10 JUN	12 AUG 87	
1986 045A	COSMOS 1757	16772	USSR	11 JUN	25 JUN 85	
1986 045B		16773	USSR	11 JUN	13 JUN 86	
1986 045C		16816	USSR	11 JUN	27 JUN 86	
1986 045D		16817	USSR	11 JUN	5 JUL 86	
1986 045E		16818	USSR	11 JUN	27 JUN 86	
1986 045F		16819	USSR	11 JUN	9 JUL 86	
1986 045G		16820	USSR	11 JUN	29 JUN 86	
1986 043A	COSMOS 1760	16803	USSR	19 JUN	3 JUL 86	
1986 043B		16801	USSR	19 JUN	19 JUL 86	
1986 048C		16844	USSR	19 JUN	24 MAR 89	
1986 048D		16845	USSR	19 JUN	23 MAR 87	
1986 048E		16846	USSR	19 JUN	17 MAR 87	
1986 048F		16847	USSR	19 JUN	27 JUL 86	
1986 048G		16848	USSR	19 JUN	26 DEC 85	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986 LAUNCHES (CONT.)						
1986 0493		16903	USSR	19 JUN	27 SEP 86	
1986 049C		16804	USSR	19 JUN	1 OCT 86	
1986 0508		16850	USSR	5 JUL	19 SEP 86	
1986 050C		16851	USSR	5 JUL	16 AUG 86	
1986 051A	COSMOS 1762	16855	USSR	10 JUL	24 JUL 86	
1986 051B		16856	USSR	10 JUL	15 JUL 86	
1986 051C		16871	USSR	10 JUL	21 AUG 86	
1986 051D		16872	USSR	10 JUL	3 AUG 86	
1986 051E		16873	USSR	10 JUL	31 JUL 86	
1986 051F		16875	USSR	10 JUL	22 SEP 86	
1986 051G		16880	USSR	10 JUL	5 AUG 86	
1986 053A	COSMOS 1764	16861	USSR	16 JUL	11 SEP 86	
1986 053B		16862	USSR	17 JUL	26 JUL 86	
1986 054A	COSMOS 1765	16874	USSR	24 JUL	7 AUG 86	
1986 054B		16875	USSR	24 JUL	8 AUG 86	
1986 054C		16899	USSR	24 JUL	6 NOV 86	
1986 054D		16900	USSR	24 JUL	14 MAY 87	
1986 054E		16901	USSR	24 JUL	23 SEP 86	
1986 054F		16902	USSR	24 JUL	20 MAR 87	
1986 054G		16903	USSR	24 JUL	18 SEP 86	
1986 054H		16904	USSR	24 JUL	14 SEP 86	
1986 054J		16905	USSR	24 JUL	12 MAY 88	
1986 054K		16906	USSR	24 JUL	11 SEP 86	
1986 054L		16907	USSR	24 JUL	14 SEP 86	
1986 056A	COSMOS 1767	16883	USSR	30 JUL	16 AUG 86	
1986 056B		16884	USSR	30 JUL	4 AUG 86	
1986 056C		16888	USSR	30 JUL	18 AUG 86	
1986 056D		16892	USSR	30 JUL	11 AUG 86	
1986 056E		16893	USSR	30 JUL	12 AUG 86	
1986 056F		16894	USSR	30 JUL	20 AUG 86	
1986 057B		16885	USSR	30 JUL	19 OCT 85	
1986 057C		16887	USSR	30 JUL	5 OCT 86	
1986 058A	COSMOS 1768	16890	USSR	2 AUG	16 AUG 85	
1986 058B		16891	USSR	2 AUG	7 AUG 86	
1986 058C		16911	USSR	2 AUG	19 OCT 86	
1986 058D		16912	USSR	2 AUG	19 SEP 86	
1986 058E		16913	USSR	2 AUG	24 AUG 86	
1986 058F		16914	USSR	2 AUG	17 AUG 86	
1986 058G		16915	USSR	2 AUG	29 AUG 86	
1986 058H		16916	USSR	2 AUG	31 AUG 86	
1986 059A	COSMOS 1769	16895	USSR	4 AUG	18 FEB 88	
1986 059B		16895	USSR	4 AUG	4 AUG 86	
1986 059D		18382	USSR	4 AUG	14 DEC 87	
1986 059E		18383	USSR	4 AUG	7 OCT 87	
1986 060A	COSMOS 1770	16897	USSR	6 AUG	2 FEB 87	
1986 060B		16899	USSR	6 AUG	12 AUG 86	
1986 060C		17393	USSR	6 AUG	5 FEB 87	
1986 062B		17034	USSR	20 AUG	20 OCT 86	
1986 062D		17036	USSR	20 AUG	29 NOV 86	
1986 063A	COSMOS 1772	16918	USSR	21 AUG	3 SEP 86	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 0638		16919	USSR	21 AUG	2 SEP 86	
1986 063C		16930	USSR	21 AUG	9 APR 87	
1985 063D		16931	USSR	21 AUG	13 MAY 88	
1985 063E		16932	USSR	21 AUG	7 JAN 87	
1985 063F		16933	USSR	21 AUG	1 JUN 87	
1986 063G		17301	USSR	21 AUG	19 MAR 87	
1985 064A	COSMOS 1773	16920	USSR	27 AUG	21 OCT 86	
1986 064B		16921	USSR	27 AUG	2 SEP 86	
1985 065A		16923	USSR	28 AUG	22 OCT 86	
1986 065C		16924	USSR	28 AUG	1 OCT 86	
1986 066A		16926	USSR	3 SEP	17 SEP 86	
1986 066B		16927	USSR	3 SEP	25 SEP 86	
1986 066C		16970	USSR	3 SEP	12 APR 88	
1986 065D		16971	USSR	3 SEP	1 MAR 87	
1986 066E		16972	USSR	3 SEP	20 DEC 86	
1985 066F		16973	USSR	3 SEP	2 APR 87	
1986 066G		16975	USSR	3 SEP	27 SEP	
1986 066H		16976	USSR	3 SEP	7 OCT 86	
1986 066J		16977	USSR	3 SEP	2 OCT 86	
1986 066K		16979	USSR	3 SEP	10 OCT 86	
1985 066L		16979	USSR	3 SEP	21 DEC 86	
1985 067A		16928	USSR	3 SEP	15 DEC 89	
1985 067B		16929	USSR	3 SEP	26 OCT 89	
1985 067C		17006	USSR	3 SEP	30 OCT 87	
1985 067D		17007	USSR	3 SEP	14 OCT 87	
1985 067E		17008	USSR	3 SEP	8 NOV 87	
1986 067F		17009	USSR	3 SEP	24 OCT 87	
1986 067G		17258	USSR	3 SEP	9 DEC 87	
1986 067H		17259	USSR	3 SEP	29 NOV 87	
1985 067J		17260	USSR	3 SEP	23 NOV 87	
1985 067K		17261	USSR	3 SEP	14 NOV 87	
1986 067L		17334	USSR	3 SEP	4 DEC 87	
1986 067M		17335	USSR	3 SEP	9 NOV 87	
1986 067N		17356	USSR	3 SEP	27 DEC 87	
1986 067P		17357	USSR	3 SEP	22 NOV 87	
1985 067S		18026	USSR	3 SEP	13 JAN 88	
1985 067I		18027	USSR	3 SEP	7 FEB 88	
1985 068B		16935	USSR	5 SEP	12 OCT 85	
1985 068C		16936	USSR	5 SEP	6 NOV 86	
1985 069A		16937	US	5 SEP	28 SEP 86	
1986 069B		16938	US	5 SEP	25 NOV 86	
1986 069C		16940	US	5 SEP	24 SEP 86	
1985 069D		16941	US	5 SEP	14 APR 87	
1985 069E		16942	US	5 SEP	10 NOV 86	
1985 069F		16943	US	5 SEP	11 DEC 86	
1985 069G		16944	US	5 SEP	23 OCT 86	
1985 069H		16945	US	5 SEP	31 OCT 86	
1986 069J		16946	US	5 SEP	30 MAR 87	
1985 069K		16947	US	5 SEP	16 SEP 86	
1986 059L		16948	US	5 SEP	15 NOV 85	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1985 LAUNCHES (CONT.)						
1985 069M		16942	US	5 SEP	23 SEP	
1985 069N		16950	US	5 SEP	13 SEP 86	
1985 069P		16951	US	5 SEP	21 OCT 86	
1985 069Q		17019	US	5 SEP	20 MAR 87	
1985 069R		17020	US	5 SEP	29 OCT 86	
1985 069S		17021	US	5 SEP	26 OCT 86	
1985 069T		17022	US	5 SEP	31 OCT 86	
1985 0710		16964	USSR	16 SEP	16 SEP 86	
1985 071E		16965	USSR	16 SEP	16 SEP 86	
1985 072A	COSMOS 1781	16966	USSR	17 SEP	1 OCT 86	
1985 072B		16967	USSR	17 SEP	7 OCT 86	
1985 072C		16974	USSR	17 SEP	20 SEP 86	
1985 072D		16989	USSR	17 SEP	9 APR 88	
1985 072E		16989	USSR	17 SEP	20 MAY 87	
1985 072F		16990	USSR	17 SEP	19 MAY 87	
1985 072G		16991	USSR	17 SEP	29 DEC 86	
1985 072H		16992	USSR	17 SEP	13 JAN 87	
1985 072J		17049	USSR	17 SEP	1 DEC 86	
1985 073C		16943	US	17 SEP	4 AUG 91	
1985 074C		19432	USSR	30 SEP	13 MAR 89	
1985 075B		16994	USSR	3 OCT	22 NOV 85	
1985 075C		16995	USSR	3 OCT	8 NOV 86	
1985 075E		16998	USSR	3 OCT	12 NOV 86	
1985 076A	PRC 19	17001	PRC	6 OCT	23 OCT 86	
1985 0750		17002	PRC	6 OCT	20 OCT 86	
1985 076C		17005	PRC	6 OCT	8 OCT 85	
1985 075D		17024	PRC	6 OCT	12 OCT 86	
1985 077A	COSMOS 1784	17003	USSR	6 OCT	11 NOV 85	
1985 077B		17004	USSR	6 OCT	12 OCT 86	
1985 077C		17032	USSR	15 OCT	18 NOV 86	
1985 077D		17033	USSR	15 OCT	9 DEC 86	
1985 077E		17039	USSR	20 OCT	22 DEC 86	
1985 069A	COSMOS 1785	17040	USSR	20 OCT	12 DEC 86	
1985 080J		17042	USSR	22 OCT	6 MAR 88	
1985 081A	COSMOS 1787	17043	USSR	22 OCT	8 APR 89	
1985 081B		17044	USSR	22 OCT	4 NOV 86	
1985 081C		17045	USSR	22 OCT	30 OCT 86	
1985 081D		17054	USSR	22 OCT	20 NOV 86	
1985 081E		17061	USSR	22 OCT	17 NOV 86	
1985 081G		17062	USSR	22 OCT	31 DEC 85	
1985 082B		17064	USSR	22 OCT	8 NOV 86	
1985 082C		17047	USSR	25 OCT	28 OCT 85	
1985 082D		17044	USSR	25 OCT	26 OCT 85	
1985 083A	COSMOS 1789	17052	USSR	27 OCT	21 JAN 91	
1985 083B		17051	USSR	27 OCT	5 JAN 90	
1985 084A	COSMOS 1789	17054	USSR	31 OCT	14 NOV 86	
1985 084B		17055	USSR	31 OCT	4 NOV 86	
1985 084C		17072	USSR	31 OCT	27 AUG 87	
1985 084D		17073	USSR	31 OCT	19 DEC 85	
1985 084E		17074	USSR	31 OCT	7 JAN 87	

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DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1986 LAUNCHES (CONT.)						
1986 084F		17075	USSR	31 OCT	19 NOV 86	
1986 084G		17076	USSR	31 OCT	3 JAN 87	
1986 084H		17077	USSR	31 OCT	21 FEB 87	
1986 085A	COSMOS 1790	17056	USSR	4 NOV	18 NOV 86	
1986 085B		17057	USSR	4 NOV	9 NOV 86	
1986 085C		17082	USSR	4 NOV	21 NOV 86	
1986 085D		17066	USSR	4 NOV	26 NOV 86	
1986 085E		17087	USSR	4 NOV	23 NOV 86	
1986 085F		17088	USSR	4 NOV	24 NOV 86	
1986 085G		17089	USSR	4 NOV	10 DEC 86	
1986 087A	COSMOS 1792	17063	USSR	13 NOV	5 JAN 87	
1986 087B		17069	USSR	13 NOV	19 NOV 86	
1986 089B		17079	USSR	15 NOV	19 DEC 86	
1986 089C		17080	USSR	15 NOV	28 DEC 86	
1986 090C		17085	USSR	18 NOV	19 NOV 86	
1986 090E		17148	USSR	18 NOV	12 AUG 87	
1986 091B		17135	USSR	20 NOV	27 JAN 87	
1986 091C		17136	USSR	20 NOV	23 DEC 86	
1986 095A	COSMOS 1804	17179	USSR	4 DEC	18 DEC 86	
1986 095B		17180	USSR	4 DEC	31 DEC 86	
1986 095C		17243	USSR	4 DEC	4 SEP 87	
1986 095D		17244	USSR	4 DEC	13 APR 83	
1986 095E		17245	USSR	4 DEC	26 MAY 87	
1986 095F		17246	USSR	4 DEC	15 APR 87	
1986 095G		17252	USSR	4 DEC	6 APR 87	
1986 095H		17182	US	5 DEC	13 MAR 88	
1986 098B		17214	USSR	12 DEC	23 FEB 87	
1986 098C		17215	USSR	12 DEC	10 FEB 87	
1986 099A	COSMOS 1807	17217	USSR	16 DEC	23 JAN 87	
1986 099B		17219	USSR	16 DEC	22 DEC 86	
1986 102A	COSMOS 1810	17262	USSR	24 DEC	11 SEP 87	
1986 102B		17263	USSR	26 DEC	31 DEC 86	
1986 102C		18345	USSR	26 DEC	11 SEP 87	
1986 102D		18346	USSR	26 DEC	12 SEP 87	
1986 102E		18347	USSR	26 DEC	12 SEP 87	
1986 103B		17265	USSR	26 DEC	2 FEB 87	
1986 103C		17266	USSR	26 DEC	21 JAN 87	
1986 103E		17276	USSR	26 DEC	27 JAN	
1987 LAUNCHES						
1987 002A	COSMOS 1811	17292	USSR	9 JAN	13 FEB 87	
1987 002B		17293	USSR	9 JAN	16 JAN 87	
1987 002C		17294	USSR	9 JAN	11 JAN 87	
1987 004A	COSMOS 1813	17297	USSR	15 JAN	13 MAR 89	
1987 004B		17298	USSR	15 JAN	1 FEB 87	
1987 004C		17361	USSR	15 JAN	27 JUN 87	
1987 004D		17367	USSR	15 JAN	1 FEB 87	
1987 004Q		17409	USSR	15 JAN	22 FEB 87	
1987 004AE		17490	USSR	15 JAN	22 MAR 87	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DFCAY	NOTES
1987 LAUNCHES (CONT.)						
1987 0048E		17516	USSR	15 JAN	17 SEP 88	
1987 0048Y		17856	USSR	15 JAN	13 APR 87	
1987 004CC		17860	USSR	15 JAN	15 APR 87	
1987 004CF		17863	USSR	15 JAN	26 AUG 87	
1987 004DH		17899	USSR	15 JAN	5 NOV 88	
1987 004ED		17936	USSR	15 JAN	28 NOV 87	
1987 004EF		18030	USSR	15 JAN	13 JUN 87	
1987 004EG		18029	USSR	15 JAN	18 JUN 87	
1987 004GT		18514	USSR	15 JAN	21 NOV 87	
1987 005A	PROGRESS 27	17299	USSR	16 JAN	25 FEB 87	
1987 005B		17300	USSR	16 JAN	20 JAN 87	
1987 007A	COSMOS 1815	17326	USSR	22 JAN	15 NOV 83	
1987 007B		17327	USSR	22 JAN	6 OCT 88	
1987 0088		17329	USSR	22 JAN	1 MAR 87	
1987 008C		17350	USSR	22 JAN	25 FEB 87	
1987 010A		17365	USSR	30 JAN	31 JAN 87	
1987 010B	COSMOS 1817	17366	USSR	30 JAN	2 FEB 87	
1987 010C		17367	USSR	30 JAN	18 MAR 87	
1987 010D		17368	USSR	30 JAN	13 FEB 87	
1987 0118		17370	USSR	1 FEB	2 FEB 87	
1987 011C		17399	USSR	1 FEB	29 JUL 90	
1987 011D		17400	USSR	1 FEB	4 MAY 90	
1987 012A	ASTRO C	17480	JAPAN	5 FEB	1 NOV 91	
1987 012C		18229	JAPAN	5 FEB	25 NOV 89	
1987 012D		18238	JAPAN	5 FEB	8 OCT 89	
1987 012E		18407	JAPAN	5 FEB	11 AUG 89	
1987 012F		18408	JAPAN	5 FEB	22 NOV 88	
1987 012G		18409	JAPAN	5 FEB	11 FEB 89	
1987 012H		18523	JAPAN	5 FEB	3 FEB 88	
1987 012J		18682	JAPAN	5 FEB	9 FEB 89	
1987 013A	SOYUZ TM-2	17482	USSR	5 FEB	30 JUL 87	
1987 013B		17483	USSR	5 FEB	8 FEB 87	
1987 013C		18242	USSR	5 FEB	16 JAN 88	
1987 014A	COSMOS 1819	17484	USSR	7 FEB	18 FEB 87	
1987 014B		17485	USSR	7 FEB	10 FEB 87	
1987 014C		17486	USSR	7 FEB	7 FEB 87	
1987 014D		17487	USSR	7 FEB	8 FEB 87	
1987 014E		17529	USSR	7 FEB	3 MAR 87	
1987 014F		17530	USSR	7 FEB	24 MAR 87	
1987 014G		17531	USSR	7 FEB	23 FEB 87	
1987 016A	COSMOS 1820	17523	USSR	14 FEB	6 MAR 87	
1987 016B		17524	USSR	14 FEB	22 FEB 87	
1987 019A	COSMOS 1822	17533	USSR	19 FEB	5 MAR 87	
1987 019B		17534	USSR	19 FEB	1 MAR 87	
1987 019C		17568	USSR	19 FEB	11 MAR 87	
1987 019D		17569	USSR	19 FEB	17 MAR 87	
1987 019E		17570	USSR	19 FEB	10 APR 87	
1987 019F		17571	USSR	19 FEB	8 MAR 87	
1987 019G		17572	USSR	19 FEB	11 MAR 87	
1987 019H		17573	USSR	19 FEB	6 MAR 87	

INFR- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987 LAUNCHES (CONT.)						
1987 019RM		18228	ESA	22 FEB	19 JUL 89	
1987 020CP		19840	USSR	20 FEB	24 NOV 89	
1987 021A	COSMOS 1824	17559	USSR	26 FEB	22 APR 87	
1987 021B		17560	USSR	26 FEB	4 MAR 87	
1987 021A	PROGRESS 28	17564	USSR	3 MAR	28 MAR 87	
1987 023B		17565	USSR	3 MAR	6 MAR 87	
1987 025A	COSMOS 1826	17577	USSR	11 MAR	25 MAR 87	
1987 025B		17578	USSR	11 MAR	25 MAR 87	
1987 025C		17579	USSR	11 MAR	25 MAR 87	
1987 025D		17580	USSR	11 MAR	17 MAR 87	
1987 025E		17581	USSR	11 MAR	16 MAR 87	
1987 025F		17785	USSR	11 MAR	17 MAR 87	
1987 025G		17786	USSR	11 MAR	30 JUN 87	
1987 025H		17787	USSR	11 MAR	30 AUG 88	
1987 025J		17783	USSR	11 MAR	8 APR 87	
1987 025K		17789	USSR	11 MAR	16 SEP 87	
1987 025L		17790	USSR	11 MAR	21 NOV 87	
1987 025M		17791	USSR	11 MAR	3 MAY 87	
1987 028B		17612	USSR	11 MAR	18 APR 87	
1987 028C		17613	USSR	19 MAR	22 MAR 87	
1987 028F		17710	USSR	19 MAR	19 MAR 87	
1987 029E		17707	USSR	19 MAR	30 SEP 87	
1987 029C		17708	US	20 MAR	23 APR 87	
1987 0303		17846	INDNSA	20 MAR	18 DEC 89	
1987 030C		17851	USSR	31 MAR	4 APR 87	
1987 031A	COSMOS 1834	17847	USSR	31 MAR	25 AUG 88	
1987 031B		17848	USSR	8 APR	14 OCT 88	
1987 032A	COSMOS 1835	17849	USSR	8 APR	8 APR 87	
1987 032B		17850	USSR	9 APR	4 JUN 87	
1987 033A	COSMOS 1836	17875	USSR	9 APR	14 APR 87	
1987 033B		17877	USSR	16 APR	2 DEC 87	
1987 033C		18028	USSR	16 APR	20 APR 87	
1987 033D		18587	USSR	16 APR	20 JUN 87	
1987 033E		18583	USSR	16 APR	3 DEC	
1987 034A	PROGRESS 29	17878	USSR	16 APR	5 DEC	
1987 034B		17879	USSR	21 APR	11 MAY 87	
1987 035A	COSMOS 1837	17880	USSR	21 APR	24 APR 87	
1987 0353		17381	USSR	22 APR	28 APR 87	
1987 035C		17914	USSR	22 APR	24 APR 87	
1987 035D		17915	USSR	22 APR	18 MAY 87	
1987 035E		17916	USSR	22 APR	30 APR 87	
1987 035F		17917	USSR	22 APR	2 MAY 87	
1987 035G		17918	USSR	22 APR	8 MAY 87	
1987 036A	COSMOS 1838	17902	USSR	24 APR	2 MAY 87	
1987 036B	COSMOS 1839	17903	USSR	24 APR	15 MAY 91	
1987 036C	COSMOS 1840	17904	USSR	24 APR	8 MAY 91	
1987 036D		17905	USSR	24 APR	14 SEP 91	
1987 036E		17906	USSR	24 APR	25 APR 87	
1987 036F		17909	USSR	24 APR	27 APR 87	
1987 036G		17910	USSR	24 APR	12 AUG 87	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987 LAUNCHES (CONT.)						
1987 036J		17962	USSR	24 APR	28 OCT 87	
1987 037A	COSMOS 1841	17907	USSR	24 APR	8 MAY 87	
1987 037B		17908	USSR	24 APR	22 MAY 87	
1987 037C		17964	USSR	24 APR	9 MAY 87	
1987 037E		17966	USSR	24 APR	21 MAY 87	
1987 037F		17967	USSR	24 APR	24 MAY 87	
1987 037G		17968	USSR	24 APR	11 JUN 87	
1987 037A		17940	USSR	5 MAY	19 MAY 87	
1987 039A	COSMOS 1843	17941	USSR	5 MAY	13 MAY 87	
1987 039C		17963	USSR	5 MAY	7 MAY 87	
1987 039D		18001	USSR	5 MAY	28 AUG 87	
1987 039E		18002	USSR	5 MAY	11 JUL 88	
1987 039F		18003	USSR	5 MAY	6 NOV 87	
1987 039G		18022	USSR	5 MAY	22 NOV 87	
1987 040B		17970	USSR	11 MAY	14 MAY 87	
1987 040C		17971	USSR	11 MAY	12 MAY 87	
1987 042A	COSMOS 1845	17975	USSR	13 MAY	27 MAY 87	
1987 042B		17976	USSR	13 MAY	1 JUN 87	
1987 042C		18013	USSR	13 MAY	25 OCT 87	
1987 042D		18014	USSR	13 MAY	16 AUG 89	
1987 042E		18015	USSR	13 MAY	24 NOV 87	
1987 042F		18016	USSR	13 MAY	22 JUN 87	
1987 042G		18019	USSR	13 MAY	4 DEC 87	
1987 042H		18020	USSR	13 MAY	14 SEP 87	
1987 042J		18023	USSR	13 MAY	20 SEP 87	
1987 044A	PROGRESS 30	17999	USSR	19 MAY	19 JUL 87	
1987 044B		18000	USSR	19 MAY	22 MAY 87	
1987 045A	COSMOS 1846	18004	USSR	21 MAY	4 JUN 87	
1987 045B		18005	USSR	21 MAY	26 MAY 87	
1987 045C		18006	USSR	21 MAY	22 MAY 87	
1987 045D		18067	USSR	21 MAY	11 JUN 87	
1987 045E		18088	USSR	21 MAY	21 JUL 87	
1987 045F		18089	USSR	21 MAY	12 SEP 87	
1987 045G		18090	USSR	21 MAY	14 JUN 87	
1987 045H		18091	USSR	21 MAY	4 AUG 87	
1987 045J		18092	USSR	21 MAY	15 JUL 87	
1987 045K		18093	USSR	21 MAY	19 JUL 87	
1987 045L		19094	USSR	21 MAY	5 JAN 89	
1987 046A	COSMOS 1847	18011	USSR	26 MAY	22 JUL 87	
1987 046B		18012	USSR	26 MAY	30 MAY 87	
1987 047A	COSMOS 1848	18017	USSR	28 MAY	11 JUN 87	
1987 047B		18018	USSR	28 MAY	12 JUN 87	
1987 047C		18021	USSR	28 MAY	30 MAY 97	
1987 047D		18097	USSR	28 MAY	25 JUN 87	
1987 047S		18159	USSR	28 MAY	12 JUL 87	
1987 047T		18190	USSR	28 MAY	12 JUL 87	
1987 048B		18084	USSR	4 JUN	30 JUN 87	
1987 049C		18085	USSR	4 JUN	15 AUG 87	
1987 050B		18104	USSR	12 JUN	15 AUG 87	
1987 050C		18105	USSR	12 JUN	22 JUL 87	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987 LAUNCHES (CONT.)						
1987 052B		18239	USSR	18 JUN	2 AUG 87	
1987 052C		18240	USSR	18 JUN	16 SEP 87	
1987 056A	COSMOS 1863	18155	USSR	4 JUL	18 JUL 87	
1987 056B		18156	USSR	4 JUL	18 JUL 87	
1987 056D		18158	USSR	4 JUL	7 JUL 87	
1987 057C		18157	USSR	6 JUL	8 JUL	
1987 058A	COSMOS 1865	18162	USSR	8 JUL	14 AUG 87	
1987 058B		18163	USSR	8 JUL	16 JUL 87	
1987 059A	COSMOS 1866	18184	USSR	9 JUL	6 NOV 87	
1987 059B		18185	USSR	9 JUL	15 JUL 87	
1987 059C		18186	USSR	9 JUL	10 JUL 87	
1987 059D		18285	USSR	9 JUL	19 AUG 87	
1987 059E		18286	USSR	9 JUL	28 AUG 87	
1987 059F		18287	USSR	9 JUL	18 AUG 87	
1987 059G		18288	USSR	9 JUL	17 SEP 87	
1987 060B		18188	USSR	10 JUL	11 JUL 87	
1987 060C		18191	USSR	10 JUL	11 FEB 90	
1987 060D		18524	USSR	10 JUL	14 MAY 90	
1987 061A	COSMOS 1868	18192	USSR	14 JUL	2 MAR 89	
1987 061B		18193	USSR	14 JUL	30 AUG 88	
1987 063A	SOYUZ TM-3	18222	USSR	22 JUL	29 DEC 87	
1987 063B		18223	USSR	22 JUL	24 JUL 87	
1987 063C		18723	USSR	22 JUL	17 JUN 89	
1987 064A	COSMOS 1870	18225	USSR	25 JUL	29 JUL 89	
1987 064B		18226	USSR	25 JUL	25 JUL 87	
1987 064C		18227	USSR	25 JUL	26 JUL 87	
1987 065A	COSMOS 1871	18259	USSR	1 AUG	10 AUG 87	
1987 065B		18260	USSR	1 AUG	3 AUG 87	
1987 066A	PROGRESS 31	18283	USSR	3 AUG	23 SEP 87	
1987 066B		18284	USSR	3 AUG	7 AUG 87	
1987 067A	PRC 20	18306	PRC	5 AUG	23 AUG 87	
1987 067B		18307	PRC	5 AUG	21 AUG 87	
1987 069A	COSMOS 1872	18314	USSR	19 AUG	30 AUG 87	
1987 069B		18315	USSR	19 AUG	26 AUG 87	
1987 069C		18321	USSR	19 AUG	10 SEP 87	
1987 069D		18322	USSR	19 AUG	1 SEP 87	
1987 069E		18323	USSR	19 AUG	31 AUG 87	
1987 069F		18324	USSR	19 AUG	7 SEP 87	
1987 069G		18325	USSR	19 AUG	1 SEP 87	
1987 070B		18317	JAPAN	27 AUG	29 AUG 87	
1987 070C		18320	JAPAN	27 AUG	12 JUN 89	
1987 071A	COSMOS 1873	18318	USSR	28 AUG	14 SEP 87	
1987 071B		18319	USSR	28 AUG	2 SEP 87	
1987 072A	COSMOS 1874	18326	USSR	3 SEP	17 SEP 87	
1987 072B		18327	USSR	3 SEP	11 SEP 87	
1987 072C		18368	USSR	3 SEP	12 OCT 87	
1987 072D		18369	USSR	3 SEP	19 SEP 87	
1987 072E		18370	USSR	3 SEP	20 SEP 87	
1987 072F		18371	USSR	3 SEP	25 SEP 87	
1987 073B		18329	USSR	4 SEP	6 SEP 87	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987 LAUNCHES (CONT.)						
1987 073C		18330	USSR	4 SEP	4 SEP 87	
1987 073F		18333	USSR	4 SEP	5 JUL 88	
1987 075A	PRC 21	18341	PRC	9 SEP	4 OCT 87	
1987 075B		18342	PRC	9 SEP	24 SEP 87	
1987 075C		18372	PRC	9 SEP	23 SEP 87	
1987 075D		18373	PRC	9 SEP	20 SEP 87	
1987 076A	COSMOS 1881	18343	USSR	11 SEP	30 MAR 88	
1987 076B		18344	USSR	11 SEP	15 SEP 87	
1987 076D		19035	USSR	11 SEP	2 APR 89	
1987 077A	COSMOS 1882	18348	USSR	15 SEP	6 OCT 87	
1987 077B		18349	USSR	15 SEP	17 SEP 87	
1987 077C		18380	USSR	15 SEP	17 OCT 87	
1987 077D		18390	USSR	15 SEP	12 OCT 87	
1987 077E		18391	USSR	15 SEP	10 OCT 87	
1987 077G		18393	USSR	15 SEP	11 OCT 87	
1987 078C		16352	ESA	16 SEP	21 JUN 91	
1987 078D		18353	ESA	16 SEP	8 OCT 88	
1987 079D		18358	USSR	16 SEP	16 SEP 87	
1987 080D		18364	US	16 SEP	2 FEB 89	
1987 081A	COSMOS 1886	18366	USSR	17 SEP	2 NOV 87	
1987 081B		18367	USSR	17 SEP	22 SEP 87	
1987 081C		18449	USSR	17 SEP	2 NOV 87	
1987 082A	PROGRESS 32	18376	USSR	23 SEP	19 NOV 87	
1987 082B		18377	USSR	23 SEP	26 SEP 87	
1987 083A	COSMOS 1887	16380	USSR	29 SEP	12 OCT 87	
1987 083B		18381	USSR	29 SEP	19 OCT 87	
1987 083E		18400	USSR	29 SEP	21 OCT 87	
1987 083F		18401	USSR	29 SEP	28 OCT 87	
1987 084B		18385	USSR	1 OCT	4 OCT 87	
1987 084F		18420	USSR	1 OCT	6 JUN 88	
1987 085B		18395	USSR	9 OCT	25 OCT 87	
1987 085C		18436	USSR	9 OCT	28 FEB 88	
1987 085D		18437	USSR	9 OCT	31 JAN 88	
1987 085E		18438	USSR	9 OCT	30 NOV 87	
1987 085F		18439	USSR	9 OCT	23 DEC 87	
1987 085G		18440	USSR	9 OCT	10 OCT 88	
1987 085H		18567	USSR	9 OCT	27 NOV 87	
1987 086A	COSMOS 1890	18396	USSR	10 OCT	26 DEC 88	
1987 086B		18397	USSR	10 OCT	11 OCT 87	
1987 089A	COSMOS 1893	18432	USSR	22 OCT	16 DEC 87	
1987 089B		18433	USSR	22 OCT	26 OCT 87	
1987 089E		18359	USSR	16 SEP	16 SEP 87	
1987 089EZ		18442	JS	26 OCT	27 NOV 87	
1987 090B		18444	USSR	28 OCT	31 OCT 87	
1987 091B		18445	USSR	28 OCT	29 OCT 87	
1987 091C		18447	USSR	26 OCT	9 MAR 88	
1987 091E		18491	USSR	11 NOV	26 NOV 87	
1987 092A	COSMOS 1895	18492	USSR	11 NOV	25 NOV 87	
1987 092B		18572	USSR	11 NOV	28 NOV 87	
1987 092C		18573	USSR	11 NOV	27 NOV 87	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987 LAUNCHES (CONT.)						
1987 092E		18574	USSR	11 NOV	4 DEC 87	
1987 092F		18581	USSR	11 NOV	29 NOV 87	
1987 092G		18582	USSR	11 NOV	27 NOV 87	
1987 093A	COSMOS 1896	18535	USSR	14 NOV	25 DEC 87	
1987 093B		18536	USSR	14 NOV	20 NOV 87	
1987 093C		18537	USSR	14 NOV	15 NOV 87	
1987 094A	PROGRESS 33	18568	USSR	20 NOV	19 DEC 87	
1987 094B		18569	USSR	20 NOV	23 NOV 87	
1987 096B		18576	USSR	26 NOV	28 NOV 87	
1987 096C		18577	USSR	26 NOV	27 NOV 87	
1987 096E		18579	USSR	26 NOV	12 JUL 89	
1987 096F		18580	USSR	26 NOV	18 AUG 88	
1987 099A	COSMOS 1899	18625	USSR	7 DEC	21 DEC 87	
1987 099B		18626	USSR	7 DEC	13 DEC 87	
1987 099C		18627	USSR	7 DEC	8 DEC 87	
1987 099D		18705	USSR	7 DEC	15 JAN 88	
1987 099E		18706	USSR	7 DEC	23 DEC 87	
1987 099F		18707	USSR	7 DEC	22 DEC 87	
1987 099G		18708	USSR	7 DEC	27 DEC 87	
1987 100B		18632	USSR	10 DEC	13 DEC 87	
1987 100C		18633	USSR	10 DEC	11 DEC 87	
1987 100E		18635	USSR	10 DEC	7 MAY 91	
1987 100F		18636	USSR	10 DEC	5 JUL 90	
1987 101B		19553	USSR	12 DEC	1 OCT 98	
1987 101C		19589	USSR	12 DEC	3 NOV 88	
1987 102A	COSMOS 1901	18666	USSR	14 DEC	3 FEB 88	
1987 102B		18667	USSR	14 DEC	20 DEC 87	
1987 103A	COSMOS 1902	18668	USSR	15 DEC	30 DEC 88	
1987 103B		18669	USSR	15 DEC	21 SEP 88	
1987 104A	SOYUZ TM-4	18599	USSR	21 DEC	17 JUN 88	
1987 104B		18700	USSR	21 DEC	23 DEC 87	
1987 104C		19225	USSR	21 DEC	5 NOV 88	
1987 104D		19251	USSR	21 DEC	5 JUL 88	
1987 104E		19253	USSR	21 DEC	19 JUN 88	
1987 104F		19254	USSR	21 DEC	27 JUN 88	
1987 104G		19255	USSR	21 DEC	9 JUL 88	
1987 105B		18702	USSR	21 DEC	9 FEB 88	
1987 105C		18703	USSR	21 DEC	12 JAN 89	
1987 105E		18777	USSR	21 DEC	27 MAR 88	
1987 107A	COSMOS 1905	18711	USSR	25 DEC	8 JAN 88	
1987 107B		18712	USSR	25 DEC	1 JAN 88	
1987 107C		18759	USSR	25 DEC	12 JAN	
1987 107D		18760	USSR	25 DEC	3 FEB 83	
1987 107E		18761	USSR	25 DEC	15 JAN	
1987 107F		18762	USSR	25 DEC	13 JAN	
1987 107G		18763	USSR	25 DEC	10 JAN	
1987 108A	COSMOS 1906	18713	USSR	26 DEC	13 MAR 88	
1987 103B		18714	USSR	26 DEC	29 DEC 87	
1987 103C		18825	USSR	26 DEC	19 FEB 88	
1987 108D		18826	USSR	26 DEC	28 FEB 88	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1987 LAUNCHES (CONT.)						
1987 103E		18827	USSR	26 DEC	23 FEB 88	
1987 103F		18828	USSR	26 DEC	1 APR 88	
1987 108G		18829	USSR	26 DEC	2 MAR 88	
1987 104H		18830	USSR	26 DEC	11 FEB 88	
1987 108J		18831	USSR	26 DEC	13 FEB 88	
1987 108K		18832	USSR	26 DEC	5 MAR 88	
1987 108L		18838	USSR	26 DEC	9 FEB 88	
1987 108M		18841	USSR	26 DEC	13 FEB 88	
1987 108N		18842	USSR	26 DEC	19 FEB 88	
1987 108P		18843	USSR	26 DEC	22 FEB 88	
1987 108Q		18888	USSR	26 DEC	7 MAR 88	
1987 108AA		18893	USSR	26 DEC	6 APR 88	
1987 108AC		18894	USSR	26 DEC	25 MAR 88	
1987 108AD		18895	USSR	26 DEC	12 MAR 88	
1987 108AE		18897	USSR	26 DEC	11 MAR 88	
1987 108AG		18900	USSR	26 DEC	12 MAR 88	
1987 108AK		18950	USSR	26 DEC	20 MAR 88	
1987 108AL		18973	USSR	26 DEC	20 MAR 88	
1987 108AN		18715	USSR	27 DEC	30 DEC 87	
1987 108B		18717	USSR	27 DEC	28 DEC 87	
1987 109C		18722	USSR	27 DEC	26 OCT 88	
1987 109F		18720	USSR	29 DEC	12 JAN 88	
1987 110A	COSMOS 1907	18721	USSR	29 DEC	1 JAN 88	
1987 110C		18724	USSR	29 DEC	26 FEB 88	
1987 110D		18768	USSR	29 DEC	8 MAY 88	
1987 110E		18769	USSR	29 DEC	6 DEC 88	
1987 110F		18770	USSR	29 DEC	9 APR 88	
1987 110G		18771	USSR	29 DEC	30 MAR 88	
1987 110H		18772	USSR	29 DEC	28 FEB 88	
1987 110J		18908	USSR	29 DEC		
1988 LAUNCHES						
1988 003A	PROGRESS 34	18795	USSR	20 JAN	4 MAR 88	
1988 0033		18796	USSR	20 JAN	23 JAN	
1988 004A	COSMOS 1915	18809	USSR	26 JAN	9 FEB 88	
1988 004B		18810	USSR	26 JAN	7 FEB 88	
1988 004C		18850	USSR	26 JAN	10 APR 88	
1988 004D		18851	USSR	26 JAN	17 FEB 88	
1988 004E		18852	USSR	26 JAN	21 FEB 88	
1988 004F		18853	USSR	26 JAN	23 FEB 88	
1988 006E		18956	US	3 FEB	2 FEB 89	
1988 007A	COSMOS 1916	18823	USSR	3 FEB	29 FEB 88	
1988 007B		18824	USSR	3 FEB	9 FEB 88	
1988 008A		18847	US	8 FEB	1 MAR 88	
1988 008B		18848	US	8 FEB	2 APR 88	
1988 008C		18849	US	8 FEB	5 MAR 88	
1988 008D		18854	US	8 FEB	13 FEB 88	
1988 008E		18857	USSR	17 FEB	17 FEB 88	
1988 008F	COSMOS 1917-19	18858	USSR	17 FEB	19 FEB 88	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988 LAUNCHES (CONT.)						
1988 009C		18859	USSR	17 FEB	20 FEB 89	
1988 010A	COSMOS 1920	18860	USSR	18 FEB	9 MAR 88	
1988 010B		18951	USSR	18 FEB	20 FEB 88	
1988 010C		18924	USSR	18 FEB	11 MAR 88	
1988 010D		18925	USSR	18 FEB	10 MAR 88	
1988 010E		18926	USSR	18 FEB	6 APR 88	
1988 010F		18930	USSR	18 FEB	8 APR 88	
1988 010G		18933	USSR	18 FEB	2 JUL 88	
1988 010H		18934	USSR	18 FEB	23 MAR 88	
1988 010J		18935	USSR	18 FEB	26 MAR 88	
1988 011A	COSMOS 1921	18875	USSR	19 FEB	4 MAR 88	
1988 011B		18876	USSR	19 FEB	4 MAR 88	
1988 011C		18880	USSR	19 FEB	21 FEB 88	
1988 011D		18916	USSR	19 FEB	29 MAY 88	
1988 011E		18917	USSR	19 FEB	22 JUN 88	
1988 011F		18918	USSR	19 FEB	24 NOV 88	
1988 011G		18919	USSR	19 FEB	15 APR 88	
1988 011H		18920	USSR	19 FEB	5 JUN 88	
1988 011J		18921	USSR	19 FEB	19 APR 88	
1988 0128		18978	JAPAN	19 FEB	26 FEB 88	
1988 0138		18892	USSR	26 FEB	5 APR 88	
1988 0130		18884	USSR	26 FEB	25 MAR 88	
1988 0148		18923	PRC	7 MAR	20 JUL 89	
1988 015A	COSMOS 1923	18931	USSR	10 MAR	22 MAR 88	
1988 0158		18932	USSR	10 MAR	16 MAR 88	
1988 015C		18935	USSR	10 MAR	11 MAR 88	
1988 015D		18987	USSR	10 MAR	1 APR 88	
1988 015E		18988	USSR	10 MAR	24 MAR 88	
1988 015F		18991	USSR	10 MAR	23 MAR 88	
1988 015G		18989	USSR	10 MAR	25 MAR 88	
1988 015H		18990	USSR	10 MAR	27 MAR 88	
1988 0178		18947	USSR	11 MAR	7 APR 88	
1988 017C		18948	USSR	11 MAR	9 APR 88	
1988 018D		18954	ESA	11 MAR	1 FEB 89	
1988 0198		19130	USSR	14 MAR	27 JUN 88	
1988 019C		19161	USSR	14 MAR	24 MAY 88	
1988 019E		19517	USSR	14 MAR	3 NOV 88	
1988 022B		18981	USSR	17 MAR	28 APR 88	
1988 022C		18982	USSR	17 MAR	10 APR 88	
1988 022E		19187	USSR	17 MAR	6 JUL 88	
1988 024A	PROGRESS 35	18992	USSR	23 MAR	5 MAY 88	
1988 0248		18993	USSR	23 MAR	26 MAR 88	
1988 024C		19039	USSR	23 MAR	5 MAY 88	
1988 0258		19012	USSR	24 MAR	27 MAR 88	
1988 025C		19040	USSR	24 MAR	8 APR 89	
1988 026A	SM-D	19013	ITALY	25 MAR	5 DEC 88	
1988 0268		19014	US	25 MAR	16 JUN 88	
1988 027A	COSMOS 1936	19015	USSR	30 MAR	18 MAY 88	
1988 027D		19129	USSR	30 MAR	18 MAY 88	
1988 027E		19130	USSR	30 MAR	18 MAY 88	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988 LAUNCHES (CONT.)						
1988 028C		19019	USSR	31 MAR	31 MAR 88	
1988 030A		19041	USSR	11 APR	25 APR 88	
1988 030B	COSMOS 1938	19042	USSR	11 APR	16 APR 88	
1988 030C		19065	USSR	11 APR	29 APR 88	
1988 030D		19066	USSR	11 APR	29 APR 88	
1988 030E		19067	USSR	11 APR	7 MAY 88	
1988 030F		19063	USSR	11 APR	29 APR 88	
1988 030G		19069	USSR	11 APR	30 APR 88	
1988 031A	FOTON 1	19043	USSR	14 APR	28 APR 88	
1988 031B		19044	USSR	14 APR	29 APR 88	
1988 031C		19084	USSR	14 APR	29 MAY 88	
1988 031D		19085	USSR	14 APR	5 MAY 88	
1988 031E		19086	USSR	14 APR	15 MAY 88	
1988 031F		19088	USSR	14 APR	5 MAY 88	
1988 034B		19074	USSR	26 APR	28 APR 88	
1988 034C		19075	USSR	26 APR	26 APR 88	
1988 035A		19079	USSR	27 APR	11 MAY 88	
1988 035B	COSMOS 1941	19080	USSR	27 APR	2 MAY 88	
1988 035C		19081	USSR	27 APR	27 APR 88	
1988 035D		19087	USSR	27 APR	3 MAY 88	
1988 035E		19096	USSR	27 APR	22 MAY 88	
1988 035F		19097	USSR	27 APR	14 MAY 88	
1988 035G		19098	USSR	27 APR	13 MAY 88	
1988 035H		19099	USSR	27 APR	16 MAY 88	
1988 035J		19100	USSR	27 APR	12 MAY 88	
1988 036B		19091	USSR	6 MAY	8 MAY 88	
1988 036C		19092	USSR	6 MAY	6 MAY 88	
1988 036D		19093	USSR	6 MAY	4 MAR 90	
1988 036F		19095	USSR	6 MAY	16 JUL 89	
1988 037A	COSMOS 1942	19115	USSR	12 MAY	4 JUL 88	
1988 037B		19116	USSR	12 MAY	16 MAY 88	
1988 037C		19273	USSR	12 MAY	5 JUL 88	
1988 038A	PROGRESS 36	19117	USSR	13 MAY	5 JUN 88	
1988 038B		19118	USSR	13 MAY	15 MAY 88	
1988 041A	COSMOS 1944	19123	USSR	18 MAY	23 JUN 88	
1988 041B		19124	USSR	18 MAY	24 MAY 88	
1988 042A		19131	USSR	19 MAY	31 MAY 88	
1988 042B	COSMOS 1945	19132	USSR	19 MAY	1 JUN 88	
1988 042C		19199	USSR	19 MAY	3 JUN 88	
1988 042D		19200	USSR	19 MAY	4 JUN 88	
1988 042E		19201	USSR	19 MAY	10 JUN 88	
1988 042F		19202	USSR	19 MAY	1 JUN 88	
1988 042G		19203	USSR	19 MAY	2 JUN 88	
1988 043D		19166	USSR	21 MAY	22 MAY 88	
1988 043E		19167	USSR	21 MAY	21 MAY 88	
1988 044C		19191	USSR	26 MAY	7 JUL 88	
1988 044D		19192	USSR	26 MAY	28 JUN 88	
1988 044E		19239	USSR	26 MAY	13 JUL 88	
1988 044F		19434	USSR	26 MAY	23 SEP 88	
1988 044G		19457	USSR	26 MAY	9 OCT 88	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988 LAUNCHES (CONT.)						
1988 044H		19481	USSR	26 MAY	13 OCT 88	
1988 045A	COSMOS 1949	19193	USSR	28 MAY	23 APR 90	
1988 045H		19194	USSR	28 MAY	28 MAY 88	
1988 047A	COSMOS 1951	19197	USSR	31 MAY	14 JUN 88	
1988 047R		19198	USSR	31 MAY	3 JUN 88	
1988 047C		19212	USSR	31 MAY	17 JUL 88	
1988 047D		19213	USSR	31 MAY	19 JUN 88	
1988 047E		19214	USSR	31 MAY	17 JUN 88	
1988 048A	SOYUZ TM-5	19204	USSR	7 JUN	7 SEP 88	
1988 048B		19205	USSR	7 JUN	9 JUN 88	
1988 048C		19386	USSR	7 JUN	6 NOV 88	
1988 048C		19464	USSR	7 JUN	2 JAN 89	
1988 049A	COSMOS 1952	19206	USSR	11 JUN	25 JUN 88	
1988 049B		19207	USSR	11 JUN	17 JUN 88	
1988 049C		19208	USSR	11 JUN	12 JUN 88	
1988 049D		19209	USSR	11 JUN	12 JUN 88	
1988 049E		19265	USSR	11 JUN	20 JUL 88	
1988 049F		19266	USSR	11 JUN	2 JUL 88	
1988 049G		19267	USSR	11 JUN	26 JUN 88	
1988 049H		19268	USSR	11 JUN	28 JUN 88	
1988 049J		19269	USSR	11 JUN	30 JUN 88	
1988 049K		19270	USSR	11 JUN	27 JUN 88	
1988 052J		19224	US	16 JUN	8 MAR 89	
1988 052C		19252	US	16 JUN	16 JUN 88	
1988 052D		19293	US	16 JUN	29 OCT 88	
1988 052E		19389	US	16 JUN	15 SEP 88	
1988 054A	COSMOS 1955	19258	USSR	22 JUN	20 AUG 88	
1988 054B		19259	USSR	22 JUN	27 JUN 88	
1988 054C		19262	USSR	22 JUN	23 JUN 88	
1988 055A	COSMOS 1956	19263	USSR	23 JUN	7 JUL 88	
1988 055B		19264	USSR	23 JUN	25 JUN 88	
1988 055C		19278	USSR	23 JUN	8 NOV 88	
1988 055D		19279	USSR	23 JUN	23 AUG 88	
1988 055E		19280	USSR	23 JUN	31 AUG 88	
1988 055F		19284	USSR	23 JUN	13 JUL 88	
1988 055F		19285	USSR	23 JUN	7 AUG 88	
1988 055G		19286	USSR	23 JUN	5 AUG 88	
1988 057A	COSMOS 1957	19276	USSR	7 JUL	21 JUL 88	
1988 057B		19277	USSR	7 JUL	9 JUL 88	
1988 057C		19326	USSR	7 JUL	30 JUL 88	
1988 057D		19327	USSR	7 JUL	27 JUL 88	
1988 057E		19328	USSR	7 JUL	24 JUL 88	
1988 057F		19329	USSR	7 JUL	22 JUL 88	
1988 057G		19333	USSR	21 JUL	20 AUG 88	
1988 057H		19334	USSR	21 JUL	23 JUL 88	
1988 059C		19263	USSR	7 JUL	6 JUL 88	
1988 059E		19404	USSR	8 AUG	26 AUG 88	
1988 059C		19289	USSR	12 JUL	13 JUL 88	
1988 059D		19292	USSR	12 JUL	13 JUL 88	
1988 060A	COSMOS 1958	19320	USSR	14 JUL	21 MAR 89	

DECEASED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 0608		19321	USSR	14 JUL	7 JAN 89	
1983 061A	PROGRESS 37	19322	USSR	18 JUL	12 AUG 88	
1983 061B		19323	USSR	18 JUL	22 JUL 88	
1983 063D		19335	ESA	21 JUL	12 JUL 89	
1983 065A	COSMOS 1960	19338	USSR	28 JUL	9 APR 90	
1983 065B		19337	USSR	28 JUL	8 JAN 90	
1983 065C		19340	USSR	28 JUL	19 OCT 88	
1983 065D		20190	USSR	22 AUG	23 AUG 89	
1983 065E		19341	USSR	26 JUL	19 OCT 88	
1983 065F		19342	USSR	28 JUL	18 OCT 88	
1983 065G		19343	USSR	28 JUL	18 OCT 88	
1983 065H		19506	USSR	28 JUL	30 JAN 89	
1983 065J		19507	USSR	28 JUL	27 JAN 89	
1983 065K		19551	USSR	28 JUL	31 JAN 89	
1983 065L		19552	USSR	23 JUL	12 FEB 89	
1983 065M		19602	USSR	28 JUL	25 FEB 89	
1983 065N		19603	USSR	28 JUL	10 FEB 89	
1983 065O		19345	USSR	1 AUG	4 AUG 88	
1983 065P		19346	USSR	1 AUG	2 AUG 88	
1983 065Q	PRC 23	19349	USSR	1 AUG	2 JUN 89	
1983 065R		19368	PRC	5 AUG	13 AUG 88	
1983 065S		19369	PRC	5 AUG	19 AUG 88	
1983 065T		19370	PRC	5 AUG	7 AUG 88	
1983 065U		19371	PRC	5 AUG	7 AUG 88	
1983 065V		19381	PRC	5 AUG	27 AUG 88	
1983 065W		19382	PRC	5 AUG	17 AUG 88	
1983 065X		19383	PRC	5 AUG	19 AUG 88	
1983 065Y		19474	PRC	5 AUG	26 JUN 89	
1983 065Z	COSMOS 1962	19372	USSR	6 AUG	22 AUG 88	
1983 066A		19373	USSR	8 AUG	13 AUG 88	
1983 066B		19374	USSR	8 AUG	9 AUG 88	
1983 066C		19403	USSR	8 AUG	24 AUG 88	
1983 066D		19405	USSR	8 AUG	12 SEP 88	
1983 066E		19406	USSR	8 AUG	27 AUG 88	
1983 066F		19407	USSR	8 AUG	23 AUG 88	
1983 066G		19378	USSR	12 AUG	20 SEP 88	
1983 066H		19379	USSR	12 AUG	21 SEP 88	
1983 066I		19424	USSR	12 AUG	12 SEP 88	
1983 066J		19433	USSR	12 AUG	15 SEP 88	
1983 066K		19443	USSR	12 AUG	16 SEP 88	
1983 066L		19444	USSR	12 AUG	2 OCT 88	
1983 066M	COSMOS 1963	19384	USSR	15 AUG	21 AUG 88	
1983 066N		19385	USSR	16 AUG	21 AUG 88	
1983 066O		19396	USSR	16 AUG	19 AUG 88	
1983 066P		19397	USSR	16 AUG	7 SEP 88	
1983 066Q	COSMOS 1964	19413	USSR	23 AUG	28 AUG 88	
1983 066R		19414	USSR	23 AUG	24 AUG 88	
1983 066S		19417	USSR	23 AUG	24 AUG 88	
1983 066T		19418	USSR	23 AUG	24 AUG 88	
1983 066U		19469	USSR	23 AUG	10 SEP 88	
1983 066V		19470	USSR	23 AUG	11 SEP 88	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988 LAUNCHES (CONT.)						
1988 072G		19471	USSR	23 AUG	25 SEP 88	
1988 072H		19472	USSR	23 AUG	9 SEP 88	
1988 073A	COSMOS 1965	19414	USSR	23 AUG	22 SEP 88	
1988 073B		19415	USSR	23 AUG	25 AUG 88	
1988 073C		19416	USSR	23 AUG	23 AUG 88	
1988 073D		19523	USSR	23 AUG	4 OCT 88	
1988 073E		19524	USSR	23 AUG	18 OCT 88	
1988 073F		19525	USSR	23 AUG	13 OCT 88	
1988 073G		19526	USSR	23 AUG	2 OCT 88	
1988 075A	SOYUZ TM-6	19443	USSR	29 AUG	21 DEC 88	
1988 075B		19444	USSR	29 AUG	31 AUG 88	
1988 076B		19446	USSR	30 AUG	30 SEP 88	
1988 076C		19447	USSR	30 AUG	16 SEP 88	
1988 079A	COSMOS 1967	19462	USSR	6 SEP	15 SEP 88	
1988 079B		19463	USSR	6 SEP	15 SEP 88	
1988 079C		19465	USSR	6 SEP	8 SEP 88	
1988 079D		19466	USSR	6 SEP	8 SEP 88	
1988 079E		19492	USSR	6 SEP	16 SEP 88	
1988 079F		19493	USSR	6 SEP	16 SEP 88	
1988 079G		19494	USSR	6 SEP	23 SEP 88	
1988 079H		19497	USSR	6 SEP	18 SEP 88	
1988 079J		19498	USSR	6 SEP	18 SEP 88	
1988 079K		19499	USSR	6 SEP	16 SEP 88	
1988 081D		19487	ESA	8 SEP	3 JAN 90	
1988 082A	COSMOS 1968	19488	USSR	9 SEP	23 SEP 88	
1988 082B		19489	USSR	9 SEP	11 SEP 88	
1988 082D		19528	USSR	9 SEP	16 OCT 88	
1988 082E		19529	USSR	9 SEP	27 SEP 88	
1988 082F		19530	USSR	9 SEP	26 SEP 88	
1988 083A	PROGRESS 38	19486	USSR	9 SEP	23 NOV 88	
1988 083B		19491	USSR	9 SEP	12 SEP 88	
1988 084A	COSMOS 1969	19495	USSR	15 SEP	13 NOV 88	
1988 084C		19496	USSR	15 SEP	19 SEP 88	
1988 084D		19500	USSR	15 SEP	16 SEP 88	
1988 085D		19504	USSR	15 SEP	16 SEP 88	
1988 086B		19509	USSR	16 SEP	16 SEP 88	
1988 087A	HORIZON 1	19519	JAPAN	16 SEP	21 SEP 88	
1988 087B		19520	ISRAEL	19 SEP	14 JAN 89	
1988 088A	COSMOS 1973	19521	ISRAEL	19 SEP	12 JAN 89	
1988 088B		19522	USSR	22 SEP	10 OCT 88	
1988 088C		19527	USSR	22 SEP	1 OCT 88	
1988 088D		19564	USSR	7 SEP	30 SEP 88	
1988 088E		19565	USSR	22 SEP	22 NOV 88	
1988 088F		19566	USSR	22 SEP	31 MAR 89	
1988 088G		19567	USSR	22 SEP	22 SEP 88	
1988 088H		19572	USSR	22 SEP	12 OCT 88	
1988 089H		19575	USSR	22 SEP	2 NOV 88	
1988 089J		19571	USSR	22 SEP	1 NOV 88	
1988 090B		19547	USSR	22 SEP	2 FEB 89	
1988 090C		19543	USSR	29 SEP	29 OCT 88	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1988 LAUNCHES (CONT.)						
1984 091A	STS 26	19547	US	29 SEP	3 OCT 88	
1988 092B		19555	USSR	3 OCT	23 OCT 88	
1988 092C		19556	USSR	3 OCT	28 OCT 88	
1988 094A	COSMOS 1976	19582	USSR	13 OCT	27 OCT 88	
1983 094B		19583	USSR	13 OCT	21 OCT 88	
1988 094C		19614	USSR	13 OCT	14 APR 89	
1988 094D		19615	USSR	13 OCT	12 NOV 88	
1988 094E		19616	USSR	13 OCT	18 DEC 88	
1988 094F		19617	USSR	13 OCT	10 DEC 89	
1988 094G		19623	USSR	13 OCT	16 NOV 88	
1983 095B		19597	USSR	20 OCT	22 OCT 88	
1983 095C		19593	USSR	20 OCT	21 OCT 88	
1989 095B		19609	USSR	25 OCT	25 NOV 88	
1988 096C		19610	USSR	25 OCT	9 NOV 88	
1988 097A	COSMOS 1978	19612	USSR	27 OCT	10 NOV 88	
1988 097B		19613	USSR	27 OCT	3 NOV 88	
1988 097C		19627	USSR	27 OCT	12 NOV 88	
1988 097D		19528	USSR	27 OCT	12 NOV 88	
1989 097E		19629	USSR	27 OCT	14 NOV 88	
1988 097F		19530	USSR	27 OCT	13 NOV 88	
1989 097G		19631	USSR	27 OCT	23 NOV 88	
1988 100A	BURAN	19637	USSR	15 NOV	15 NOV 88	
1983 101A	COSMOS 1979	19647	USSR	18 NOV	25 DEC 89	
1988 101B		19648	USSR	18 NOV	18 NOV 88	
1988 102G		19311	USSR	23 NOV	17 OCT 90	
1983 103A	COSMOS 1981	19651	USSR	24 NOV	5 DEC 88	
1988 103B		19652	USSR	24 NOV	10 DEC 88	
1988 103C		19653	USSR	24 NOV	27 NOV 88	
1988 103D		19654	USSR	24 NOV	28 NOV 88	
1983 103E		19655	USSR	24 NOV	26 NOV 88	
1989 103F		19674	USSR	24 NOV	17 DEC 88	
1988 103G		19675	USSR	24 NOV	9 DEC 83	
1988 103H		19676	USSR	24 NOV	11 DEC 83	
1983 104A	SOYUZ TM-7	19660	USSR	26 NOV	27 APR 89	
1983 104B		19661	USSR	26 NOV	28 NOV 89	
1983 105A	COSMOS 1982	19662	USSR	30 NOV	14 DEC 84	
1988 105B		19663	USSR	30 NOV	10 DEC 88	
1983 105C		19694	USSR	30 NOV	20 JAN 89	
1988 105D		19695	USSR	30 NOV	13 JAN 89	
1988 105E		19697	USSR	30 NOV	27 APR 89	
1984 105F		19670	US	30 NOV	14 JAN 89	
1988 106A	STS 27	19672	USSR	2 DEC	5 DEC 84	
1983 107A	COSMOS 1983	19673	USSR	6 DEC	22 DEC 88	
1989 107B		19677	USSR	8 DEC	14 DEC 88	
1988 107C		19678	USSR	8 DEC	10 DEC 88	
1983 107D		19679	USSR	8 DEC	10 DEC 88	
1984 107E		19709	USSR	8 DEC	9 DEC 88	
1983 107F		19717	USSR	8 DEC	23 DEC 88	
1988 107G		19718	USSR	8 DEC	23 DEC 88	
1988 107H			USSR	8 DEC	24 DEC 88	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1983 LAUNCHES (CONT.)						
1983 107H		19719	USSR	8 DEC	24 DEC 88	
1983 109B		19834	USSR	8 DEC	12 DEC 88	
1983 109C		19685	USSR	8 DEC	11 DEC 88	
1983 109E		19691	USSR	8 DEC	13 NOV 91	
1983 108F		19599	USSR	10 DEC	9 SEP 90	
1983 110A	COSMOS 1984	19705	USSR	16 DEC	13 FEB 89	
1983 110B		19706	USSR	16 DEC	20 DEC 88	
1983 112E		19722	USSR	22 DEC	3 JAN 89	
1983 112G		19724	USSR	22 DEC	24 DEC 88	
1983 113A		19721	USSR	23 DEC	15 MAR 89	
1983 113C		19726	USSR	23 DEC	2 MAR 89	
1983 113D		19727	USSR	23 DEC	3 MAR 89	
1983 113E		19711	USSR	23 DEC	17 MAR 89	
1983 113F		19712	USSR	23 DEC	14 MAR 89	
1983 113G		19763	USSR	23 DEC	15 MAR 89	
1983 113J		19885	USSR	23 DEC	4 MAY 89	
1983 113K		19886	USSR	23 DEC	26 APR 89	
1983 113L		19912	USSR	23 DEC	25 APR 89	
1983 113M		19943	USSR	23 DEC	15 JUN 89	
1983 113N		19944	USSR	23 DEC	16 JUN 89	
1983 113P		19958	USSR	23 DEC	17 JUN 89	
1983 113Q		19959	USSR	23 DEC	17 JUN 89	
1983 113T		20099	USSR	23 DEC	28 AUG 89	
1983 113U	PROGRESS 39	20181	USSR	23 DEC	2 OCT 89	
1983 113V		20182	USSR	23 DEC	2 OCT 89	
1983 113W		20183	USSR	23 DEC	4 OCT 89	
1983 113X		20184	USSR	23 DEC	1 OCT 89	
1983 114A		19728	USSR	25 DEC	7 FEB 89	
1983 114B		19729	USSR	25 DEC	27 DEC 88	
1983 115B		19731	USSR	28 DEC	21 JAN 89	
1983 115C		19732	USSR	28 DEC	22 JAN 89	
1983 115E		19742	USSR	28 DEC	16 JAN 89	
1983 115F		19748	USSR	28 DEC	25 JAN 89	
1983 115A	COSMOS 1986	19734	USSR	29 DEC	11 FEB 89	
1989 LAUNCHES						
1989 0010		19752	USSR	10 JAN	10 JAN 89	
1989 002A	COSMOS 1990	19756	USSR	12 JAN	11 FEB 89	
1989 002B		19757	USSR	12 JAN	14 JAN 89	
1989 002C		19794	USSR	12 JAN	12 FEB 89	
1989 002D		19795	USSR	12 JAN	11 FEB 89	
1989 003A	COSMOS 1991	19753	USSR	13 JAN	1 FEB 89	
1989 003B		19759	USSR	13 JAN	27 JAN 89	
1989 003C		19760	USSR	18 JAN	20 JAN 89	
1989 003D		19761	USSR	18 JAN	19 JAN 89	
1989 003E		19762	USSR	18 JAN	20 JAN 89	
1989 003F		19778	USSR	18 JAN	2 MAR 89	
1989 003G		19779	USSR	18 JAN	11 FEB 89	
1989 003H		19780	USSR	13 JAN	18 JUN 89	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989 LAUNCHES (CONT.)						
1989 003J		19791	USSR	16 JAN	7 MAR 89	
1989 003K		19762	USSR	18 JAN	18 FEB 89	
1989 004C		19765	USSR	26 JAN	28 JAN 89	
1989 004C		19767	USSR	26 JAN	26 JAN 89	
1989 004C		19763	USSR	25 JAN	31 JUL 91	
1989 007A	COSMOS 1993	19774	USSR	28 JAN	27 MAR 89	
1989 007B		19775	USSR	29 JAN	1 FEB 89	
1989 009A	PROGRESS 40	19783	USSR	10 FEB	5 MAR 89	
1989 009B		19764	USSR	10 FEB	12 FEB 89	
1989 068C		19871	USSR	10 FEB	7 MAR 89	
1989 069D		19872	USSR	10 FEB	7 MAR 89	
1989 010A	COSMOS 2000	19792	USSR	10 FEB	3 MAR 89	
1989 010B		19793	USSR	10 FEB	12 FEB 89	
1989 010C		19864	USSR	10 FEB	30 MAY 89	
1989 010D		19855	USSR	10 FEB	29 MAR 89	
1989 010E		19365	USSR	10 FEB	9 MAR 89	
1989 010F		19367	USSR	10 FEB	24 MAR 89	
1989 010G		19873	USSR	10 FEB	15 MAR 89	
1989 011B		19797	USSR	14 FEB	11 MAR 89	
1989 011C		19794	USSR	14 FEB	3 MAR 89	
1989 011E		19956	USSR	14 FEB	30 APR 89	
1989 012A	COSMOS 2002	19300	USSR	14 FEB	15 OCT 89	
1989 012B		19801	USSR	14 FEB	27 JUL 89	
1989 012C		19805	USSR	14 FEB	3 MAR 89	
1989 012D		19306	USSR	14 FEB	10 MAR 89	
1989 012E		19321	USSR	14 FEB	11 MAR 89	
1989 012F		19325	USSR	14 FEB	8 MAR 89	
1989 012G		19832	USSR	14 FEB	10 MAR 89	
1989 012H		19845	USSR	14 FEB	9 MAR 89	
1989 012J		19847	USSR	14 FEB	11 MAR 89	
1989 012K		19848	USSR	14 FEB	11 MAR 89	
1989 012L		19849	USSR	14 FEB	6 MAR 89	
1989 012M		19650	USSR	14 FEB	10 MAR 89	
1989 013B		19803	US	14 FEB	13 MAR 89	
1989 013C		19804	US	14 FEB	6 DEC 89	
1989 014C		19808	USSR	15 FEB	1 MAR 89	
1989 015A		19409	USSR	15 FEB	9 MAR 89	
1989 015B		19813	USSR	17 FEB	3 MAR 89	
1989 015C		19319	USSR	17 FEB	23 FEB 89	
1989 015D		19320	USSR	17 FEB	15 FEB 89	
1989 015E		19852	USSR	17 FEB	8 MAR 89	
1989 015F		19869	USSR	17 FEB	4 MAR 89	
1989 015G		19370	USSR	17 FEB	4 MAR 89	
1989 015H		19175	USSR	17 FEB	5 MAR 89	
1989 015I		19323	USSR	17 FEB	4 APP 89	
1989 015J		19341	JAPAN	21 FEB	28 FEB 89	
1989 015K		19442	JAPAN	21 FEB	27 FEB 89	
1989 015L		19443	JAPAN	21 FEB	25 FEB 89	
1989 015M		19844	JAPAN	21 FEB	25 FEB 89	
1989 015N		19845	JAPAN	21 FEB	25 FEB 89	
1989 016H						

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1989 LAUNCHES (CONT.)

1989 016J						
1989 019A	COSMOS 2005					
1989 019B						
1989 021A	STS 29					
1989 022A	COSMOS 2006					
1989 022B						
1989 022C						
1989 022D						
1989 022E						
1989 022F						
1989 022G						
1989 022H						
1989 022J						
1989 022K						
1989 023A	PROGRESS 41					
1989 023B						
1989 023C						
1989 024A	COSMOS 2007					
1989 024B						
1989 027B						
1989 029A	COSMOS 2017					
1989 029B						
1989 029C						
1989 029D						
1989 029E						
1989 029F						
1989 029G						
1989 029H						
1989 029J						
1989 030B						
1989 030C						
1989 030E						
1989 031A	COSMOS 2018					
1989 031B						
1989 032A	FOTON 2					
1989 032B						
1989 032C						
1989 032D						
1989 032E						
1989 032F						
1989 033A	STS 30					
1989 034A	COSMOS 2019					
1989 034B						
1989 034C						
1989 034D						
1989 034E						
1989 034F						
1989 036A	COSMOS 2020					
1989 036B						
1989 037A	COSMOS 2021					

DECAYED OBJECTS						
INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989 LAUNCHES (CONT.)						
1989 037B	RESURS-F	20001	USSR	24 MAY	27 MAY 89	
1989 037C		20002	USSR	24 MAY	25 MAY 89	
1989 038A		20006	USSR	25 MAY	17 JUN 89	
1989 038B		20007	USSR	25 MAY	26 MAY 89	
1989 038C		20056	USSR	25 MAY	23 JUL 89	
1989 038D		20060	USSR	25 MAY	24 JUL 89	
1989 038E		20076	USSR	25 MAY	20 JUN 89	
1989 038F		20077	USSR	25 MAY	19 JUN 89	
1989 038G		20078	USSR	25 MAY	20 JUN 89	
1989 038H		20079	USSR	25 MAY	2 JUL 89	
1989 038J	COSMOS 2025	20080	USSR	25 MAY	19 JUN 89	
1989 039D		20027	USSR	31 MAY	31 MAY	
1989 040A		20035	USSR	1 JUN	15 JUN 89	
1989 040B		20036	USSR	1 JUN	8 JUN 89	
1989 040C		20037	USSR	1 JUN	3 JUN 89	
1989 040D		20038	USSR	1 JUN	3 JUN 89	
1989 040E		20039	USSR	1 JUN	2 JUN 89	
1989 040F		20070	USSR	1 JUN	17 JUN 89	
1989 040G		20071	USSR	1 JUN	15 JUN 89	
1989 040H		20072	USSR	1 JUN	1 JUL 89	
1989 043B	COSMOS 2028	20053	USSR	8 JUN	5 JUL 89	
1989 043C		20054	USSR	8 JUN	6 JUL 89	
1989 043E		20059	USSR	8 JUN	30 JUN	
1989 043F		20057	USSR	8 JUN	6 JUL 89	
1989 044B		20058	USSR	8 JUN	29 JUN 89	
1989 044C		20062	US	10 JUN	12 JUL 89	
1989 045B		20063	US	10 JUN	6 MAY 91	
1989 047A		20055	USSR	14 JUN	25 MAR 91	
1989 047B		20073	USSR	16 JUN	6 JUL 89	
1989 047C		20074	USSR	16 JUN	21 JUN 89	
1989 047D	COSMOS 2029	20075	USSR	16 JUN	17 JUN 89	
1989 047E		20111	USSR	16 JUN	13 JUL 89	
1989 047F		20112	USSR	16 JUL	6 JUL 89	
1989 047G		20113	USSR	16 JUL	7 JUL 89	
1989 048B		20114	USSR	16 JUN	10 JUL 89	
1989 048C		20084	USSR	21 JUN	23 JUN 89	
1989 048E		20085	USSR	21 JUN	22 JUN 89	
1989 049A		20093	USSR	21 JUN	30 MAR 90	
1989 049C		20095	USSR	27 JUN	11 JUL 89	
1989 049D		20117	USSR	28 JUN	14 JUL 89	
1989 049E	COSMOS 2029	20118	USSR	28 JUN	15 JUL 89	
1989 049F		20119	USSR	25 JUL	5 AUG 89	
1989 049G		20120	USSR	28 JUN	18 JUL 89	
1989 051A		20121	USSR	27 JUN	14 JUL 89	
1989 051B		20105	USSR	5 JUL	13 JUL 89	
1989 051C		20106	USSR	5 JUL	7 JUL 89	
1989 051D	COSMOS 2029	20139	USSR	5 JUL	15 AUG 89	
1989 051E		20140	USSR	5 JUL	14 OCT 89	
1989 051F		20141	USSR	5 JUL	7 AUG 89	
		20142	USSR	5 JUL	15 AUG 89	

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989 LAUNCHES (CONT.)						
1989 051G		20143	USSR	5 JUL	8 AUG 89	
1989 051H		20144	USSR	5 JUL	23 JUL 89	
1989 052B		20109	USSR	5 JUL	7 JUL 89	
1989 052C		20109	USSR	5 JUL	6 JUL 89	
1989 052E		20115	USSR	5 JUL	15 AUG 91	
1989 054A	COSMOS 2030	20124	USSR	12 JUL	29 JUL 89	
1989 054B		20125	USSR	12 JUL	16 JUL 89	
1989 055A		20134	USSR	18 JUL	8 AUG 89	
1989 055B	RESURS-F3	20135	USSR	18 JUL	20 JUL 89	
1989 055C		20160	USSR	18 JUL	19 SEP 89	
1989 055D		20161	USSR	18 JUL	19 SEP 89	
1989 055E		20162	USSR	18 JUL	9 AUG	
1989 055F		20163	USSR	18 JUL	27 AUG 89	
1989 055G		20165	USSR	18 JUL	13 AUG 89	
1989 055H		20166	USSR	18 JUL	12 AUG 89	
1989 056A		20136	USSR	18 JUL	15 SEP 89	
1989 056B	COSMOS 2031	20137	USSR	18 JUL	21 JUL 89	
1989 056C		20138	USSR	18 JUL	19 JUL 89	
1989 056D		20206	USSR	18 JUL	4 SEP	
1989 056E		20207	USSR	18 JUL	4 SEP 89	
1989 056F		20203	USSR	18 JUL	4 SEP 89	
1989 056G		20209	USSR	18 JUL	4 SEP 89	
1989 056H		20210	USSR	18 JUL	4 SEP 89	
1989 056J		20211	USSR	18 JUL	4 SEPT	
1989 056K		20212	USSR	18 JUL	4 SEP 89	
1989 056L		20213	USSR	18 JUL	3 SEP 89	
1989 057A	COSMOS 2032	20145	USSR	20 JUL	3 AUG 89	
1989 057J		20146	USSR	20 JUL	22 JUL 89	
1989 057C		20156	USSR	20 JUL	10 AUG 89	
1989 057D		20157	USSR	20 JUL	4 AUG 89	
1989 057E		20153	USSR	20 JUL	6 AUG 89	
1989 057F		20159	USSR	20 JUL	5 AUG	
1989 058A	COSMOS 2033	20147	USSR	24 JUL	6 JAN 91	
1989 058B		20149	USSR	20 JUL	24 JUL 89	
1989 060A	COSMOS 2035	20151	USSR	2 AUG	16 AUG 89	
1989 060B		20152	USSR	2 AUG	4 AUG 89	
1989 060C		20177	USSR	2 AUG	18 AUG 89	
1989 060D		20178	USSR	2 AUG	17 AUG 89	
1989 060E		20179	USSR	2 AUG	17 AUG 89	
1989 060F		20180	USSR	2 AUG	22 AUG 89	
1989 061A	STS-28	20164	US	8 AUG	13 AUG 89	
1989 063A	RESURS-F4	20175	USSR	15 AUG	14 SEP 89	
1989 063B		20176	USSR	15 AUG	16 AUG 89	
1989 063C		20231	USSR	15 AUG	15 SEP 89	
1989 063D		20239	USSR	16 AUG	16 SEP 89	
1989 063E		20240	USSR	16 AUG	19 SEP 89	
1989 063F		20241	USSR	16 AUG	16 SEP 89	
1989 064B		20166	US	18 AUG	9 SEP 89	
1989 064C		20187	US	18 AUG	10 JUN 90	
1989 065A	COSMOS 2036	20188	USSR	22 AUG	5 SEP 89	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989 LAUNCHES (CONT.)						
1989 065B		20189	USSR	22 AUG	29 AUG 89	
1989 065C		20214	USSR	24 AUG	10 SEP	
1989 065E		20215	USSR	24 AUG	5 SEP 89	
1989 065F		20216	USSR	24 AUG	5 SEP 89	
1989 066A	PROGRESS/M	20191	USSR	23 AUG	1 DEC 89	
1989 066B		20192	USSR	23 AUG	24 AUG	
1989 067B		20194	US	27 AUG	22 OCT 89	
1989 069C		20204	US	4 SEP	24 SEP 89	
1989 071A	SOYUZ TM-B	20213	USSR	5 SEP	19 FEB 90	
1989 071B		20219	USSR	5 SEP	5 SEP 89	
1989 072B		20221	US	6 SEP	6 SEP 89	
1989 073A		20222	USSR	6 SEP	22 SEP	
1989 073B	RESURS F-5	20223	USSR	6 SEP	8 SEP 89	
1989 073C		20248	USSR	22 SEP	12 OCT 89	
1989 073D		20249	USSR	22 SEP	26 SEP 89	
1989 073E		20250	USSR	22 SEP	28 SEP 89	
1989 073F		20251	USSR	22 SEP	25 SEP 89	
1989 073G		20252	USSR	22 SEP	24 SEP 89	
1989 075A	COSMOS 2044	20242	USSR	15 SEP	29 SEP 89	
1989 075B		20243	USSR	15 SEP	18 SEP 89	
1989 075C		20267	USSR	15 SEP	1 OCT 89	
1989 075D		20268	USSR	15 SEP	30 SEP 89	
1989 075E		20269	USSR	15 SEP	29 SEP 89	
1989 076A	COSMOS 2045	20244	USSR	22 SEP	2 OCT 89	
1989 076B		20245	USSR	22 SEP	28 SEP 89	
1989 076C		20246	USSR	22 SEP	23 SEP 89	
1989 076D		20247	USSR	22 SEP	23 SEP 89	
1989 076E		20274	USSR	22 SEP	4 OCT 89	
1989 076F		20275	USSR	22 SEP	5 OCT 89	
1989 076G		20276	USSR	22 SEP	9 OCT 89	
1989 076H		20277	USSR	22 SEP	4 OCT 89	
1989 076J		20278	USSR	22 SEP	3 OCT 89	
1989 077E		20294	US	25 SEP	9 MAY 91	
1989 078D		20296	USSR	27 SEP	26 OCT 89	
1989 079C		20297	USSR	27 SEP	24 OCT 89	
1989 079A	COSMOS 2046	20253	USSR	27 SEP	16 APR 91	
1989 079B		20260	USSR	27 SEP	28 SEP 89	
1989 081B		20294	USSR	28 SEP	30 SEP 89	
1989 081C		20295	USSR	28 SEP	29 SEP 89	
1989 081E		20270	USSR	28 SEP	22 JUL 90	
1989 081F		20271	USSR	28 SEP	28 SEP 91	
1989 082A	COSMOS 2047	20272	USSR	3 OCT	21 NOV 89	
1989 082B		20230	USSR	3 OCT	6 OCT 89	
1989 083A	COSMOS 2048	20292	USSR	17 OCT	26 OCT 89	
1989 083B		20293	USSR	17 OCT	22 OCT 89	
1989 083C		20294	USSR	17 OCT	14 OCT 89	
1989 083D		20295	USSR	17 OCT	13 OCT 89	
1989 083E		20296	USSR	17 OCT	13 OCT 89	
1989 083F		20310	USSR	17 OCT	30 OCT 89	
1989 083G		20311	USSR	17 OCT	29 OCT 89	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1989 LAUNCHES (CONT.)						
1989 083H		20312	USSR	17 OCT	27 OCT 89	
1989 083J		20313	USSR	17 OCT	26 OCT 89	
1989 083K		20314	USSR	17 OCT	27 OCT 89	
1989 084A	STS-34	20297	US	14 OCT	23 OCT 89	
1989 085C		20104	US	21 OCT	5 DEC 91	
1989 088A	COSMOS 2049	20320	USSR	17 NOV	19 JUN 90	
1989 088B		20321	USSR	17 NOV	28 NOV 89	
1989 090A	STS-33	20329	US	23 NOV	18 DEC 89	
1989 091C		20331	USSR	23 NOV	10 DEC 89	
1989 092A	COSMOS 2051	20332	USSR	23 NOV	21 JAN 91	
1989 093B		20334	USSR	24 NOV	4 DEC 89	
1989 093C		20336	USSR	26 NOV	27 NOV 89	
1989 094C		20337	USSR	26 NOV	22 DEC 89	
1989 094D		20340	USSR	28 NOV	20 DEC 89	
1989 095A	COSMOS 2052	20341	USSR	28 NOV	24 JAN 90	
1989 095B		20350	USSR	30 NOV	3 DEC 89	
1989 096B		20351	USSR	30 NOV	9 MAR 91	
1989 096D		20353	USSR	1 DEC	15 APR 91	
1989 097C		20359	USSR	1 DEC	9 AUG 90	
1989 098B		20363	US	11 DEC	17 DEC 89	
1989 098C		20368	USSR	15 DEC	16 DEC 89	
1989 098E		20369	USSR	15 DEC	4 SEP 91	
1989 098F		20371	USSR	15 DEC	6 JUN 91	
1989 099A	PROGRESS M-2	20372	USSR	15 DEC	9 FEB 90	
1989 099B		20373	USSR	20 DEC	21 DEC	
1989 099B		20374	USSR	20 DEC	12 MAR 90	
1989 100C		20397	USSR	27 DEC	28 MAR 90	
1989 100D		20398	USSR	27 DEC	9 MAR 90	
1989 100E		20408	USSR	27 DEC	31 MAR 90	
1989 100F		20467	USSR	27 DEC	26 MAR 90	
1989 100G		20468	USSR	27 DEC	24 APR 90	
1989 100H		20515	USSR	27 DEC	28 APR 90	
1989 100J		20522	USSR	27 DEC	30 APR 90	
1989 100K		20531	USSR	27 DEC	7 MAY 90	
1989 102L		20532	USSR	27 DEC	15 AUG 90	
1989 100M		20637	USSR	31 DEC	20 AUG 90	
1989 100N		20640	USSR	31 DEC	17 NOV 90	
1989 100O		20911	USSR	27 DEC	21 NOV 91	
1989 100AK		21769	USSR	27 DEC	22 NOV 91	
1989 100AL		21770	USSR	27 DEC	22 NOV 91	
1989 100AM		21771	USSR	27 DEC	29 NOV 91	
1989 100AN		21772	USSR	27 DEC	27 NOV 91	
1989 100AP		21773	USSR	27 DEC	28 DEC 89	
1989 101B		20392	USSR	27 DEC	28 DEC 89	
1989 101C		20393	USSR	27 DEC	31 JUL 91	
1989 101F		20400	USSR	27 DEC	13 NOV 89	
1989 113AD		20291	USSR	23 DEC		
1990 LAUNCHES						

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990 001C		20403	US	1 JAN	9 JAN 90	
1990 001E		20405	US	1 JAN	15 JAN 90	
1990 002A		20409	US	5 JAN	20 JAN 90	
1990 003A	STS 32	20425	USSR	17 JAN	29 JAN 90	
1990 003B	COSMOS 2055	20427	USSR	17 JAN	24 JAN 90	
1990 003C	COSMOS 2055	20428	USSR	17 JAN	19 JAN 90	
1990 003D		20429	USSR	17 JAN	18 JAN 90	
1990 003E		20462	USSR	17 JAN	3 FEB 90	
1990 003F		20463	USSR	17 JAN	30 JAN 90	
1990 003G		20464	USSR	17 JAN	30 JAN 90	
1990 006B		20445	USSR	23 JAN	22 FEB 90	
1990 006D		20447	USSR	23 JAN	15 FEB 90	
1990 007C		20449	JAPAN	24 JAN	25 JAN 90	
1990 009A	COSMOS 2057	20457	USSR	25 JAN	19 MAR 90	
1990 009B		20458	USSR	25 JAN	30 JAN 90	
1990 012A	COSMOS 2059	20476	USSR	6 FEB	12 NOV 90	
1990 012B		20477	USSR	6 FEB	12 JUL 90	
1990 012C		20481	USSR	6 FEB	6 MAR 90	
1990 012D		20482	USSR	5 FEB	24 MAR 90	
1990 012E		20483	USSR	6 FEB	6 MAR 90	
1990 012F		20484	USSR	6 FEB	6 MAR 90	
1990 012G		20485	USSR	9 FEB	5 MAR 90	
1990 012H		20486	USSR	6 FEB	7 MAR 90	
1990 012J		20487	USSR	6 FEB	25 FEB 90	
1990 012K		20490	USSR	6 FEB	6 MAR 90	
1990 012L		20492	USSR	6 FEB	5 MAR 90	
1990 012M		20493	USSR	6 FEB	27 FEB 90	
1990 014A	SOYUZ TM-9	20494	USSR	11 FEB	9 AUG 90	
1990 014B		20495	USSR	11 FEB	13 FEB 90	
1990 015C		20499	US	14 FEB	7 DEC 90	
1990 016B		20500	USSR	15 FEB	17 FEB 90	
1990 016C		20501	USSR	15 FEB	17 FEB 90	
1990 016E		20506	USSR	15 FEB	3 DEC 90	
1990 016F		20507	USSR	15 FEB	4 SEP 91	
1990 019A	STS-36	20512	US	28 FEB	4 MAR 90	
1990 020A	PROGRESS M-3	20513	USSR	28 FEB	28 APR 90	
1990 020B		20514	USSR	29 FEB	2 MAR 90	
1990 021B		20524	US	14 MAR	28 MAR 90	
1990 022A	COSMOS 2060	20525	USSR	14 MAR	1 SEP 91	
1990 022B		20526	USSR	14 MAR	15 MAR 90	
1990 024A	COSMOS 2062	20529	USSR	22 MAR	5 APR 90	
1990 024B		20530	USSR	22 MAR	23 MAR 90	
1990 024C		20542	USSR	22 MAR	9 APR 90	
1990 024D		20543	USSR	22 MAR	14 APR 90	
1990 024E		20544	USSR	22 MAR	8 APR 90	
1990 024F		20545	USSR	22 MAR	7 APR 90	
1990 024G		20546	USSR	22 MAR	8 APR 90	
1990 025B		20534	US	26 MAR	4 APR 90	
1990 025J		20537	USSR	27 MAR	22 APR 90	
1990 025C		20538	USSR	27 MAR	10 APR 90	

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INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990 LAUNCHES (CONT.)						
1990 027A	OFFQ 2	20540	ISRAEL	3 APR	9 JUL 90	
1990 027B		20541	ISRAEL	3 APR	20 JUN 90	
1990 032A	FUTON 3	20565	USSR	11 APR	27 APR 90	
1990 032B		20567	USSR	11 APR	21 APR 90	
1990 032C		20568	USSR	11 APR	16 MAY 90	
1990 032D		20569	USSR	11 APR	1 MAY 90	
1990 032E		20590	USSR	11 APR	7 MAY 90	
1990 033A	COSMOS 2072	20563	USSR	13 APR	21 NOV 90	
1990 033B		20569	USSR	13 APR	16 APR 90	
1990 035A	COSMOS 2073	20573	USSR	17 APR	28 APR 90	
1990 035B		20574	USSR	17 APR	18 APR 90	
1990 035C		20591	USSR	17 APR	29 APR 90	
1990 035D		20592	USSR	17 APR	29 APR 90	
1990 035E		20593	USSR	17 APR	29 APR 90	
1990 035F		20594	USSR	17 APR	29 APR 90	
1990 035G		20595	USSR	17 APR	1 MAY 90	
1990 035H		20596	USSR	17 APR	13 MAY 90	
1990 037A	STS-31	20501	US	17 APR	2 MAY 90	
1990 038B		20579	US	24 APR	29 APR 90	
1990 038C		20582	USSR	25 APR	30 DEC 91	
1990 038D		20587	USSR	25 APR	4 JUL 90	
1990 038E		20745	USSR	25 APR	2 OCT 90	
1990 038F		20747	USSR	25 APR	28 SEP 90	
1990 038G		20748	USSR	25 APR	20 SEP 90	
1990 038H		20749	USSR	25 APR	20 SEP 90	
1990 038J		20750	USSR	25 APR	22 SEP 90	
1990 039B		20751	USSR	25 APR	25 SEP 90	
1990 039C		20584	USSR	26 APR	26 MAY 90	
1990 040B		20585	USSR	26 APR	23 MAY 90	
1990 040C		20597	USSR	28 APR	28 MAY 90	
1990 040E		20598	USSR	28 APR	13 MAY 90	
1990 041A	PROGRESS-42	20600	USSR	28 APR	3 MAY 90	
1990 041B		20602	USSR	5 MAY	27 MAY 90	
1990 042A	COSMOS 2077	20603	USSR	5 MAY	7 MAY 90	
1990 042B		20604	USSR	7 MAY	4 JUL 90	
1990 042C		20605	USSR	7 MAY	12 MAY 90	
1990 044A	COSMOS 2078	20606	USSR	7 MAY	8 MAY 90	
1990 044B		20615	USSR	15 MAY	28 JUN 90	
1990 044C		20616	USSR	15 MAY	19 MAY 90	
1990 045D		20617	USSR	15 MAY	16 MAY 90	
1990 047A	RESURS-F	20622	USSR	19 MAY	19 MAY 90	
1990 047B		20632	USSR	29 MAY	14 JUN 90	
1990 047C		20633	USSR	29 MAY	31 MAY 90	
1990 047D		20653	USSR	29 MAY	17 JUN 90	
1990 047E		20654	USSR	29 MAY	7 JUL 90	
1990 047F		20655	USSR	29 MAY	16 JUN 90	
1990 048B		20656	USSR	29 MAY	20 JUN 90	
1990 051B		20636	USSR	31 MAY	11 JUN 90	
1990 051C		20644	US	12 JUN	12 JUL 90	
1990 052B		20645	US	12 JUN	26 JUL 91	
		20647	USSR	13 JUN	3 JUL 90	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990 LAUNCHES (CONT.)						
1990 0520		20543	USSR	13 JUN	28 JUN 90	
1990 0534	COSMOS 2083	20557	USSR	19 JUN	3 JUL 90	
1990 0534		20658	USSR	19 JUN	21 JUN 90	
1990 0530		20675	USSR	19 JUN	19 JUL 90	
1990 0530		20676	USSR	19 JUN	30 SEP 90	
1990 053E		20677	USSR	19 JUN	29 JUL 90	
1990 053F		20678	USSR	19 JUN	20 JUL 90	
1990 053G		20679	USSR	19 JUN	9 AUG 90	
1990 054B		20660	USSR	20 JUN	22 JUN 90	
1990 054C		20661	USSR	20 JUN	21 JUN 90	
1990 054F		20711	USSR	20 JUN	2 JAN 91	
1990 055B		20654	USSR	21 JUN	21 JUL 90	
1990 055C		20665	USSR	21 JUN	20 JUL 90	
1990 056B		20668	US	23 JUN	26 JUN 90	
1990 059B		20634	US	11 JUL	12 JUL 90	
1990 059B	3ADR-A	20685	PAKI	15 JUL	8 DEC 90	
1990 059B		20685	PRC	16 JUL	9 OCT 90	
1990 060A		20687	USSR	17 JUL	16 AUG 90	
1990 060B		20685	USSR	17 JUL	19 JUL 90	
1990 060C		20756	USSR	17 JUL	19 AUG 90	
1990 060D		20757	USSR	17 JUL	18 AUG 90	
1990 060E		20759	USSR	17 JUL	22 AUG 90	
1990 060F		20761	USSR	17 JUL	18 AUG 90	
1990 061B		20694	USSR	18 JUL	21 JUL 90	
1990 061C		20695	USSR	18 JUL	20 JUL 90	
1990 061E		20697	USSR	18 JUL	24 AUG 91	
1990 062A		20702	USSR	20 JUL	3 AUG 90	
1990 062A	COSMOS 2085	20703	USSR	20 JUL	22 JUL 90	
1990 062C		20727	USSR	20 JUL	3 AUG 90	
1990 062D		20728	USSR	20 JUL	15 AUG 90	
1990 062E		20729	USSR	20 JUL	4 AUG 90	
1990 062F		20730	USSR	20 JUL	6 AUG 90	
1990 062G		20731	USSR	20 JUL	4 AUG 90	
1990 064A		20738	USSR	25 JUL	22 AUG 90	
1990 064C		20739	USSR	25 JUL	3 AUG 90	
1990 064E		20714	USSR	25 JUL	14 AUG 90	
1990 064F		20715	USSR	25 JUL	8 AUG 90	
1990 064G		20716	USSR	25 JUL	5 AUG 90	
1990 067A		20722	USSR	1 AUG	10 DEC 90	
1990 067B	SOYUZ TM-10	20723	USSR	1 AUG	2 AUG 90	
1990 067C		20725	US	2 AUG	15 AUG 90	
1990 068C		20726	US	2 AUG	18 MAR 91	
1990 069A		20732	USSR	3 AUG	1 OCT 90	
1990 069B	COSMOS 2089	20733	USSR	3 AUG	9 AUG 90	
1990 069C		20734	USSR	3 AUG	4 AUG 90	
1990 071A		20743	USSR	10 AUG	10 SEP 90	
1990 071C		20744	USSR	10 AUG	2 SEP 90	
1990 072A		20752	USSR	15 AUG	20 SEP 90	
1990 072A	PROGRESS M-+	20753	USSR	15 AUG	18 AUG 90	
1990 072C		20812	USSR	15 AUG	15 OCT 90	

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INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990 LAUNCHES (CONT.)						
1990 073A	RESURS-F8	20754	USSR	16 AUG	1 SEP 90	
1990 073d		20755	USSR	16 AUG	16 AUG 90	
1990 073C		20782	USSR	16 AUG	21 SEP 90	
1990 0730		20783	USSR	16 AUG	7 SEP 90	
1990 073E		20784	USSR	16 AUG	5 SEP 90	
1990 073F		20785	USSR	16 AUG	3 SEP 90	
1990 073G		20786	USSR	16 AUG	4 SEP 90	
1990 073H		20787	USSR	16 AUG	3 SEP 90	
1990 075B		20766	USSR	23 AUG	24 AUG 90	
1990 076B		20768	USSR	28 AUG	26 SEP 90	
1990 076C	COSMOS 2099	20769	USSR	28 AUG	11 SEP 90	
1990 077B		20772	JAPAN	28 AUG	5 SEP 90	
1990 077C		20773	JAPAN	28 AUG	16 FEB 91	
1990 079D		20781	ESA	30 AUG	28 SEP 91	
1990 080A		20779	USSR	31 AUG	14 SEP 90	
1990 080B		20780	USSR	31 AUG	1 SEP 90	
1990 080C		20796	USSR	31 AUG	16 SEP 90	
1990 080D		20806	USSR	31 AUG	23 SEP 90	
1990 080E		20807	USSR	31 AUG	16 SEP 90	
1990 080F		20809	USSR	31 AUG	15 SEP 90	
1990 080G	PRC 31 PRC 32 RESURS-F9	20909	USSR	31 AUG	17 SEP 90	
1990 080H		20810	USSR	31 AUG	16 SEP 90	
1990 081B		20789	PRC	3 SEP	11 MAR 91	
1990 081C		20790	PRC	3 SEP	24 JUL 91	
1990 082A		20794	USSR	7 SEP	21 SEP 90	
1990 082B		20795	USSR	7 SEP	9 SEP 90	
1990 082C		20817	USSR	7 SEP	13 OCT 90	
1990 082D		20818	USSR	7 SEP	23 SEP 90	
1990 082E		20819	USSR	7 SEP	25 SEP 90	
1990 082F		20820	USSR	7 SEP	25 SEP 90	
1990 084d	COSMOS 2101	20814	USSR	20 SEP	3 OCT 90	
1990 084C		20815	USSR	20 SEP	1 OCT 90	
1990 085A		20824	USSR	27 SEP	28 NOV 90	
1990 085B		20825	USSR	27 SEP	28 SEP 90	
1990 087A		20828	USSR	1 OCT	30 NOV 90	
1990 087B		20829	USSR	1 OCT	4 OCT 90	
1990 087C		21003	USSR	1 OCT	8 DEC 90	
1990 087D		21004	USSR	1 OCT	6 DEC 90	
1990 087E		21005	USSR	1 OCT	10 DEC 90	
1990 088B		20931	US	1 OCT	10 OCT 90	
1990 088C	PRC 33	20832	US	1 OCT	16 JUN 91	
1990 089A		20834	PRC	5 OCT	23 OCT 90	
1990 089B		20839	PRC	5 OCT	15 OCT 90	
1990 089C		20840	PRC	5 OCT	7 OCT 90	
1990 090A		20841	US	6 OCT	10 OCT 90	
1990 091D	STS-31	20375	US	12 OCT	2 OCT 91	
1990 092A		20909	ESA	15 OCT	12 DEC 90	
1990 092b		20910	USSR	16 OCT	20 OCT 90	
1990 093C		20920	US	30 OCT	3 MAR 91	
1990 094B		20924	USSR	3 NOV	4 NOV 90	
1990 092A	COSMOS 2102					

DECAYED OBJECTS

INTER- NATIONAL DESIGNATION	NAME	CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1990 LAUNCHES (CONT.)						
1990 094C		20925	USSR	3 NOV	5 NOV 90	
1990 094F		20928	USSR	3 NOV	2 MAY 91	
1990 095B		20930	US	13 NOV	13 NOV 90	
1990 096A	COSMOS 2103	20933	USSR	14 NOV	3 APR 91	
1990 096B		20934	USSR	14 NOV	14 NOV 90	
1990 097A		20935	US	15 NOV	20 NOV 90	
1990 098A	STS-38	20936	USSR	16 NOV	4 DEC 90	
1990 098B	COSMOS 2104	20937	USSR	16 NOV	5 DEC 90	
1990 098C		20938	USSR	16 NOV	19 NOV 90	
1990 098D		20939	USSR	16 NOV	20 NOV 90	
1990 098E		20940	USSR	16 NOV	19 NOV 90	
1990 098F		20956	USSR	16 NOV	7 DEC 90	
1990 098G		20994	USSR	16 NOV	10 DEC 90	
1990 098H		20995	USSR	16 NOV	5 DEC 90	
1990 098J		20996	USSR	16 NOV	14 DEC 90	
1990 098K		21002	USSR	16 NOV	6 DEC 90	
1990 099B		20942	USSR	20 NOV	23 DEC 90	
1990 099C		20943	USSR	20 NOV	7 DEC 90	
1990 100D		20948	ESA	20 NOV	6 NOV 91	
1990 100H		21021	USSR	31 DEC	21 DEC 90	
1990 101B		20950	USSR	23 NOV	26 DEC 90	
1990 101C		20951	USSR	23 NOV	12 DEC 90	
1990 102B		20954	USSR	23 NOV	25 NOV 90	
1990 102C		20955	USSR	23 NOV	24 NOV 90	
1990 102E		20957	USSR	23 NOV	1 JUL 91	
1990 102F		20958	USSR	23 NOV	2 MAY 91	
1990 104C		20975	USSR	28 NOV	21 FEB 91	
1990 104D		20976	USSR	28 NOV	23 FEB 91	
1990 104E		20977	USSR	28 NOV	6 MAR 91	
1990 104F		21070	USSR	28 NOV	10 MAR 91	
1990 104H		21081	USSR	28 NOV	10 MAR 91	
1990 104J		21083	USSR	28 NOV	11 NOV 90	
1990 104K		21258	USSR	28 NOV	15 JUL 91	
1990 104L		21259	USSR	28 NOV	10 JUL 91	
1990 104M		21260	USSR	28 NOV	10 JUL 91	
1990 104N		21261	USSR	28 NOV	10 JUL 91	
1990 105C		20983	US	1 DEC	6 FEB 91	
1990 105E		20987	US	1 DEC	23 FEB 91	
1990 105F		20989	US	1 DEC	2 JUN 91	
1990 105G		20990	US	1 DEC	16 FEB 91	
1990 105H		20992	US	1 DEC	10 JAN 91	
1990 105K		20999	US	1 DEC	2 MAR 91	
1990 105N		21215	US	1 DEC	2 FEB 91	
1990 105AD		20980	US	1 DEC	8 APR 91	
1990 106A	STS-35	20981	US	2 DEC	11 DEC 90	
1990 107A	SOTUZ TM 11	20982	USSR	2 DEC	26 MAY 91	
1990 107B		20986	USSR	2 DEC	4 DEC 90	
1990 108B		21000	USSR	4 DEC	4 DEC 90	
1990 109A	COSMOS 2108	21001	USSR	4 DEC	28 JAN 91	
1990 109B			USSR	4 DEC	9 DEC 90	

INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER		SOURCE	LAUNCH	DECAY	NOTES
1990 LAUNCHES (CONT.)							
1990 1100		21002		USSR	8 DEC	8 DEC 90	
1990 110E		21010		USSR	8 DEC	9 DEC 90	
1990 1123		21017		USSR	20 DEC	22 DEC 90	
1990 1126		21027		USSR	20 DEC	22 DEC	
1990 112C		21013		USSR	20 DEC	21 DEC 90	
1990 113A	COSMOS 2113	21026		USSR	21 DEC	11 JUN 91	
1990 115A	COSMOS 2120	21035		USSR	26 DEC	17 JAN 90	
1990 115B		21036		USSR	26 DEC	28 DEC 90	
1990 115C		21037		USSR	26 DEC	28 DEC 90	
1990 115D		21061		USSR	26 DEC	18 JAN 91	
1990 115E		21062		USSR	26 DEC	19 JAN 91	
1990 115F		21063		USSR	26 DEC	19 JAN 91	
1990 115G		21063		USSR	26 DEC	21 JAN 91	
1990 116B		21039		USSR	27 DEC	29 DEC 90	
1990 116C		21040		USSR	27 DEC	28 DEC 90	
1990 116E		21044		USSR	27 DEC	21 JUL 91	
1991 LAUNCHES							
1991 002A	PROGRESS M6	21053		USSR	14 JAN	15 MAR 91	
1991 002B		21054		USSR	14 JAN	15 JAN 91	
1991 004A	COSMOS 2121	21059		USSR	17 JAN	10 FEB 91	
1991 004B		21060		USSR	17 JAN	19 JAN 91	
1991 004C		21095		USSR	17 JAN	21 FEB 91	
1991 004D		21096		USSR	17 JAN	12 FEB 91	
1991 004E		21097		USSR	17 JAN	12 FEB 91	
1991 004F		21098		USSR	17 JAN	14 FEB 91	
1991 004G		21099		USSR	17 JAN	11 FEB 91	
1991 005B		21065		USSR	18 JAN	19 JAN 90	
1991 005C		21057		USSR	19 JAN	30 MAY 91	
1991 008A	COSMOS 2124	21092		USSR	7 FEB	7 APR 91	
1991 008B		21093		USSR	7 FEB	11 FEB 91	
1991 008C		21094		USSR	7 FEB	8 FEB 91	
1991 010B		21112		USSR	14 FEB	16 FEB 91	
1991 010C		21113		USSR	14 FEB	14 FEB 91	
1991 011A	COSMOS 2134	21116		USSR	15 FEB	1 APR 91	
1991 011B		21117		USSR	15 FEB	19 FEB 91	
1991 011C		21123		USSR	15 FEB	16 FEB 91	
1991 012B		21119		USSR	15 FEB	26 FEB 91	
1991 012C		21120		USSR	15 FEB	22 FEB 91	
1991 014B		21133		USSR	28 FEB	2 MAR 91	
1991 014C		21134		USSR	28 FEB	28 FEB 91	
1991 014E		21201		USSR	28 FEB	10 SEP 91	
1991 016A	COSMOS 2136	21143		USSR	6 MAR	20 MAR 91	
1991 016B		21144		USSR	6 MAR	17 MAR 91	
1991 016C		21145		USSR	6 MAR	8 MAR 91	
1991 016D		21146		USSR	6 MAR	9 MAR 91	
1991 016E		21192		USSR	6 MAR	22 MAR 91	
1991 016F		21193		USSR	6 MAR	24 MAR 91	
1991 016G		21194		USSR	6 MAR	21 MAR 91	

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1991 LAUNCHES (CONT.)

1991 016H		21194	USSR	6 MAR	22 MAR 91	
1991 020A	PROGRESS M-7	21138	USSR	19 MAR	7 MAY 91	
1991 0206		21139	USSR	19 MAR	20 MAR 91	
1991 0228		21197	USSR	22 MAR	2 APR 91	
1991 022C		21194	USSR	22 MAR	23 MAR 91	
1991 022E		21200	USSR	22 MAR	29 MAR 91	
1991 023A		21203	USSR	26 MAR	24 MAY 91	
1991 023B	COSMOS 2138	21204	USSR	26 MAR	29 MAR 91	
1991 0244		21214	USSR	30 MAR	2 APR 91	
1991 0250		21219	USSR	4 APR	4 APR 91	
1991 027A		21224	US	5 APR	11 APR 91	
1991 031A	STS-39	21242	US	28 APR	6 MAY 91	
1991 031B	IRSS	21244	US	28 APR	6 MAY 91	
1991 0310		21245	US	28 APR	14 MAY 91	
1991 031E		21246	US	28 APR	12 MAY 91	
1991 031F		21247	US	28 APR	13 MAY 91	
1991 034A	SOVUZ TM-12	21311	USSR	18 MAY	10 OCT 91	
1991 0343		21312	USSR	18 MAY	19 MAY 91	
1991 035A	RESURS F-10	21313	USSR	21 MAY	20 JUN 91	
1991 0352		21314	USSR	21 MAY	23 MAY 91	
1991 0350		21480	USSR	21 MAY	20 JUN 91	
1991 035E		21485	USSR	21 MAY	23 JUN 91	
1991 035A	COSMOS 2149	21315	USSR	24 MAY	4 JUL 91	
1991 036B		21316	USSR	24 MAY	27 MAY 91	
1991 038A	PROGRESS M-8	21395	USSR	30 MAY	16 AUG 91	
1991 0382		21396	USSR	30 MAY	31 MAY 91	
1991 040A	STS-40	21399	US	5 JUN	14 JUN 91	
1991 0433		21427	USSR	18 JUN	2 JUL 91	
1991 043C		21428	USSR	18 JUN	27 JUN 91	
1991 044A		21524	USSR	23 JUN	21 JUL 91	
1991 0446		21525	USSR	26 JUN	30 JUN 91	
1991 044C	RESURS F-11	21604	USSR	28 JUN	21 JUL 91	
1991 0440		21605	USSR	28 JUN	10 AUG 91	
1991 044E		21606	USSR	28 JUN	23 JUL 91	
1991 044F		21607	USSR	28 JUN	25 JUL 91	
1991 0446		21608	USSR	28 JUN	23 JUL 91	
1991 044H		21609	USSR	28 JUN	23 JUL 91	
1991 0451		21534	US	2 JUL	4 JUL 91	
1991 045C		21535	US	2 JUL	3 JUL 91	
1991 047E	LOGAT-X	21553	US	4 JUL	15 NOV 91	
1991 047C		21554	US	4 JUL	29 OCT 91	
1991 047B		21559	USSR	9 JUL	10 JUL 91	
1991 048C		21613	USSR	9 JUL	27 JUL 91	
1991 0483		21614	USSR	9 JUL	31 JUL 91	
1991 048C		21615	USSR	9 JUL	25 JUL 91	
1991 048F		21616	USSR	9 JUL	24 JUL 91	
1991 0485		21617	USSR	9 JUL	26 JUL 91	
1991 0490		21551	USSR	10 JUL	13 JUL 91	
1991 051H		21557	US	17 JUL	8 NOV 91	
1991 052A	RESURS F-12	21611	USSR	23 JUL	3 AUG 91	

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INTER- NATIONAL DESIGNATION	NAME	DECAYED OBJECTS CATALOG NUMBER	SOURCE	LAUNCH	DECAY	NOTES
1991 LAUNCHES (CONT.)						
1991 0528		21612	USSR	23 JUL	25 JUL 91	
1991 052C		21643	USSR	23 JUL	12 AUG 91	
1991 052D		21644	USSR	23 JUL	10 AUG 91	
1991 052E		21645	USSR	23 JUL	28 AUG 91	
1991 052F		21646	USSR	23 JUL	15 AUG 91	
1991 052G		21647	USSR	23 JUL	11 AUG 91	
1991 0538		21631	USSR	1 AUG	2 SEP 91	
1991 053C		21632	USSR	1 AUG	3 SEP 91	
1991 057A	PROGRESS M-9	21662	USSR	20 AUG	30 SEP 91	
1991 057B		21663	USSR	20 AUG	22 AUG 91	
1991 058A	RESURS F-13	21664	USSR	21 AUG	20 SEP 91	
1991 058B		21665	USSR	21 AUG	23 AUG 91	
1991 058C		21715	USSR	21 AUG	21 SEP 91	
1991 058D		21716	USSR	21 AUG	21 SEP 91	
1991 058E		21717	USSR	21 AUG	22 SEP 91	
1991 060B		21659	JAPAN	25 AUG	7 SEP 91	
1991 063A	STS-48	21700	US	12 SEP	18 SEP 91	
1991 064C		21704	USSR	13 SEP	14 SEP 91	
1991 064D		21705	USSR	13 SEP	15 SEP 91	
1991 0658		21707	USSR	17 SEP	30 SEP 91	
1991 065C		21708	USSR	17 SEP	25 SEP 91	
1991 065E		21710	USSR	17 SEP	27 SEP 91	
1991 065F		21718	USSR	17 SEP	27 SEP 91	
1991 065G		21719	USSR	17 SEP	25 SEP 91	
1991 065H		21720	USSR	17 SEP	25 SEP 91	
1991 066A	COSMOS 2156	21713	USSR	17 SEP	17 SEP 91	
1991 066B		21714	USSR	19 SEP	17 NOV 91	
1991 069A	SOYUZ TM-13	21735	USSR	19 SEP	22 SEP 91	
1991 069B		21736	USSR	2 OCT	3 OCT 91	
1991 070A	FOTON 4	21737	USSR	2 OCT	20 OCT 91	
1991 070B		21738	USSR	4 OCT	16 OCT 91	
1991 070C		21755	USSR	4 OCT	25 OCT 91	
1991 070D		21756	USSR	4 OCT	25 OCT 91	
1991 070E		21757	USSR	4 OCT	27 OCT 91	
1991 070F		21753	USSR	4 OCT	9 NOV 91	
1991 071A	COSMOS 2163	21741	USSR	9 OCT	7 DEC 91	
1991 071B		21742	USSR	9 OCT	12 OCT 91	
1991 072A	COSMOS 2164	21743	USSR	10 OCT	25 OCT 91	
1991 072C		21745	USSR	10 OCT	25 OCT 91	
1991 073A	PROGRESS M-10	21746	USSR	17 OCT	18 OCT 91	
1991 0738		21747	USSR	17 OCT	24 OCT 91	
1991 074A	GORIZONT 24	21759	USSR	23 OCT	24 OCT 91	
1991 0748		21760	USSR	23 OCT	24 OCT 91	
1991 074C		21761	USSR	29 OCT	24 NOV 91	
1991 075A	INTELSAT F1 V1	21765	ESA	29 OCT	24 NOV 91	
1991 078B		21789	USSR	20 NOV	24 NOV 91	
1991 079B		21790	USSR	22 NOV	23 NOV 91	
1991 079C		21771	USSR	22 NOV	23 NOV 91	
1991 080A	STS 44	21795	US	24 NOV	1 DEC 91	
1991 085B		21817	USSR	17 DEC	22 DEC 91	

INTER- NATIONAL DESIGNATION	NAME	DECEASED OBJECTS	CATALOG NUMBER	SOURCE	LAUNCH	DECEASE	NOTES
1991 LAUNCHES (CONT.)							
1991 087B			21822	USSR	19 DEC	21 DEC 91	
1991 087C			21823	USSR	19 DEC	20 DEC 91	

FOOTNOTES FOR DECAYED OBJECTS

A* ANNOUNCED LUNAR IMPACT.
B* SUCCESSFUL RE-ENTRY AND RECOVERY.
C* ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY.
D* SUCCESSFUL RE-ENTRY BUT NOT RECOVERY.
E* ANNOUNCED SUCCESSFUL RE-ENTRY AND RECOVERY OF MANNED SPACE VEHICLE.
F* SUCCESSFULLY ORBITED AND RECOVERED A MANNED SPACE VEHICLE.
G* LUNAR IMPACT.
H* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1962 8-TOTA 1. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
J* 98 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1964 070A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
K* 168 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 012A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
L* 150 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 020A, 1965 020B AND 1965 020C. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
M* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 088A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
N* ANNOUNCED OFCAY ON VENUS.
P* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1965 112A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
Q* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY LAUNCHING OR COUNTRY OF ORIGIN.
R* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON.
S* 40 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 012A, 1966 012B AND 1966 012C. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
T* LANDED ON THE MOON.
U* 54 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 046A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
V* 82 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 056A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
W* 35 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 059A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
X* 53 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 088A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
Y* 41 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 101A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
Z* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1966 104A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
AA* 37 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967 001A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
AB* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED 1967 011A. THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST OF OBJECTS IN ORBIT.
AC* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1967 024A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
AD* ANNOUNCED RE-ENTRY AND RECOVERY OF A MANNED SPACE VEHICLE.
AE* 16 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 025A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
AF* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1968 117A. ALL OBJECTS OF THIS SERIES HAVE DECAYED.
AG* A MANNED SPACECRAFT SUCCESSFULLY ORBITED THE MOON AND WAS RECOVERED.

FOOTNOTES (CONT)

AH* 23 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 021A-
THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
OF OBJECTS IN ORBIT.

AJ* A MANNED SPACECRAFT WHICH SUCCESSFULLY ORBITED THE MOON, LANDED MAN ON
THE MOON IN THE LUNAR MODULE, AND WAS RECOVERED.

AK* 38 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 029A-
THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
OF OBJECTS IN ORBIT.

AL* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1969 064A-
THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
OF OBJECTS IN ORBIT.

AM* A MANNED SPACECRAFT WHICH SUCCESSFULLY LANDED ON THE MOON, RETURNED
TO SELENOCENTRIC ORBIT, THEN DECAYED ON THE SURFACE OF THE MOON.

AN* A MANNED SPACECRAFT WHICH PASSED AROUND THE MOON AND WAS SUCCESSFULLY
RECOVERED ON THE EARTH.

AP* ANNOUNCED THAT SPACECRAFT LANDED ON THE MOON, RETURNED TO EARTH, AND
WAS SUCCESSFULLY RECOVERED.

AQ* DEBRIS DISCOVERED IN ORBIT WHICH HAS NOT BEEN IDENTIFIED WITH ANY
LAUNCH.

AR* ANNOUNCED DECAY ON MARS.

AS* 15 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 074A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AT* 29 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1971 106A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AU* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 017A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AV* 197 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 021A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AW* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 027A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AX* 14 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1973 075A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AY* 20 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 074A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

AZ* 51 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 103A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BA* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1974 104A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BB* 19 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 044A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BC* 1975 065A, CARRYING U.S. APOLLO ASTRONAUTS, AND 1975 065A, CARRYING USSR
SOYUZ COSMONAUTS, DOCKED, CREW MEMBERS VISITED EACH OTHER'S SPACECRAFT,
AND WERE SUCCESSFULLY RECOVERED.

BD* LANDED ON MARS.

BE* 77 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 080A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BF* 63 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1975 102A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BG* 17 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 012A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BH* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 037A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED.

BJ* 41 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 063A-
ALL OBJECTS OF THIS SERIES HAVE DECAYED

FOOTNOTES (CONT)

8K* 249 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 072A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8L* ANNOUNCED THAT SPACECRAFT RETURNED TO EARTH FROM THE MOON AND WAS
 SUCCESSFULLY RECOVERED.
 8M* 18 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1976 124A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8N* 22 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 042A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8P* 106 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 097A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8Q* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1977 111A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8R* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1979 063A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8S* 27 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 047A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8T* SUCCESSFUL EARTH ORBIT AND EARTH LANDING OF MANNED SPACECRAFT.
 8U* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1980 067A.
 ALL OBJECTS OF THIS SERIES HAVE DECAYED.
 8V* 26 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1981 097A.
 THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
 OF OBJECTS IN ORBIT.
 8W* 25 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 007A.
 THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
 OF OBJECTS IN ORBIT.
 8X* 194 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 033A.
 THE OBJECTS OF THIS SERIES REMAINING IN ORBIT CAN BE FOUND IN THE LIST
 OF OBJECTS IN ORBIT.
 8Y* 24 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 076A.
 ALL OBJECTS IN THIS SERIES HAVE DECAYED.
 8Z* 33 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1982 086A.
 THE OBJECTS OF THIS SERIES THAT REMAIN IN ORBIT CAN BE FOUND IN THE LIST
 OF OBJECTS IN ORBIT.
 CA* 1984 0118 (WESTAR 6) WAS RECOVERED BY 1984 113A (STS 51A) ON
 NOVEMBER 14, 1984.
 CB* 1984 0110 (PALAPA 82) WAS RECOVERED BY 1984 113A (STS 51A) ON
 NOVEMBER 12, 1984.
 CC* SOFT LANDED ON VENUS
 CD* 29 OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1985 050A.
 THE OBJECTS OF THIS SERIES REMAINING IN ORBIT CAN BE FOUND IN THE LIST
 OF OBJECTS IN ORBIT.
 NNA NO CATALOG NUMBER ASSIGNED.
 NNN NO NATIONAL NAME.

